University of Massachusetts at Boston

Summer Sessions 1986

Bulletin

$$\frac{dy}{dx} + y^2 = e^{x^2}$$

Division of Continuing Education
University of Massachusetts at Boston
Downtown Center
Boston, MA 02125-3393

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More than 400 Course Sections

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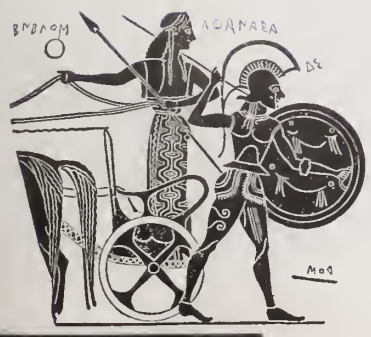

Issued: Winter, 1985–86

Sessions Starting June 2, July 7, and July 14

Convenient Registration by Mail, by Telephone, or in Person

For more information, call

9 5 6 - 1 0 0 0

The University

The University of Massachusetts at Boston is a public university, founded in 1964. Its faculty, distinguished both for scholarship and for dedication to teaching, works closely with students to maintain individual academic relationships. The resultant atmosphere of trust and camaraderie promotes rich opportunities for development in the pursuit of a superior education.

Three separate colleges grant Bachelor's degrees at UMass/Boston, as do three professional programs. The College of Arts and Sciences offers students sound training in the liberal arts and prepares them for careers in such fields as law, medicine, and scientific research. The College of Management offers academic preparation for professional, managerial careers in commerce, industry, government agencies, and other institutions. The College of Public and Community Service prepares students—particularly experienced, older students—for careers in the social services. The Institute for Learning and Teaching offers programs in early childhood, elementary, and secondary education. The curriculum of the School of Nursing leads to the BS degree and entry into professional practice. The Program in Physical Education and Fitness offers specializations for students with a wide range of interests.

The University also conducts graduate programs in the central liberal arts disciplines, in education, in business administration, and in such new or developing areas of study as computer science, human services, and environmental sciences.

UMass/Boston has two campuses: the Harbor Campus, which is three miles south of downtown Boston on Dorchester Bay, and the Downtown Center, in Boston's Park Square. For directions to these campuses, see page 4.

The University offers numerous undergraduate and graduate courses during its summer sessions, as well as a wide range of special programs. The courses and programs for summer, 1986, are described in this bulletin, and a supplement starting on page 14 calls attention to some highlights of UMass/Boston's offerings, in the programs described above, during the rest of the academic year.

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Summer Admission

Students who have graduated from high school or who have earned certificates of general educational development are welcome to take summer session courses at the University of Massachusetts at Boston. College-bound high school juniors and seniors interested in beginning their college educations are also invited to take summer session courses. The University assumes that students registering for undergraduate courses will accurately assess their ability to do college-level work. It is the responsibility of students to meet prerequisites for individual courses.

To be admitted to any graduate level course a student must have earned a Bachelor's degree, unless other requirements are specified in this catalog or unless written permission is obtained from the faculty member teaching the course.

Summer session courses carrying credit are equivalent in method and content to regular University courses. Credits earned in these courses may be applied toward UMass/Boston degree requirements and are ordinarily accepted as transfer credits by other colleges.

Summer enrollment does not imply acceptance into a degree program at the University of Massachusetts at Boston. Any student who wishes to matriculate at the University must submit an application to the Admissions Office. (If the student does matriculate, as many as sixteen undergraduate credits, or six graduate credits, earned during the summer, may be counted toward degree requirements.)

Courses in the College of Arts and Sciences marked with the prefixes "C," "D," and "E" belong to the Core Curriculum, and thus meet specific requirements for degree-seeking students (though they are also open to non-degree-seeking students). Some of these requirements for students who matriculated before the fall of 1985 are different from the requirements for students who have matriculated since that date. To insure that they take core courses appropriate to their specific requirements, all CAS matriculated students must pick up advising materials concerning the Core Curriculum (including the Writing Proficiency Requirement) *prior to* registration for the Summer Session, at the College's Office of Academic Support and Advising (M/3/625, 929-8220) or at the Division of Continuing Education. Prospective UMass/Boston students are advised to consult the UMass/Boston *Undergraduate Catalog* for further information about the core curriculum and other degree requirements. General information about UMass/Boston degree programs is available from the New Student Information Office at 929-8600.

For adults considering return to college the Admissions Office offers informational seminars every Wednesday at the Downtown Center. For information about these seminars, call the Admissions Office (929-8000).

Registration Form — Continuing Education — Summer, 1986

Please be sure to provide the numbers requested below. They are needed for coding purposes.

Social Security # ___ — ___ — ____ UMass/Boston ID # (if any): _____

Name _____ (Last) _____ (First) _____ (Middle Initial)

Address _____ (No) _____ (Street) _____ (City) _____ (State) _____ (Zip)

Student Status

O Graduate O Undergraduate

Ethnic Survey Information (Required by Federal Government)

A. American Indian/Alaskan Native
B. Black Non-Hispanic
C. Asian or Pacific Islander
D. Hispanic
E. Non-resident Alien
F. White Non-Hispanic
G. Do not wish to report
H. Cape Verdean

Sex

O Male O Female

Marital Status

O Married O Divorced
O Single O Widowed

Residency Status

O Instate O Out of State O Foreign

Veteran Status

O Veteran O Non-veteran

Student Visa

O Yes O No

Daytime Phone: ( ) _____

Date of Birth _____ (Mo) _____ (Day) _____ (Year)

Current UMass/Boston student?

O Special O Matriculated _____ (Major)

Studying in UMass/Boston's RN Program?

O Special O Matriculated

Student at other college or university?

O Yes O No If Yes, where? _____

Course Selections

Sched. No.	Course No.	Title	Starting Date	Credits		Course Fee/Credit		Lab Fee (if any)		Total Course & Lab Fee
					×		+		=	
					×		+		=	
					×		+		=	
					×		+		=	

MasterCard and VISA Only

The University of Massachusetts at Boston Division of Continuing Education will accept MasterCard or VISA for payment of fees. If you would like to make use of this service, please provide the information requested.

Account No.

Expiration Date

Student's Name (Print)

Student's Signature

Print name of person to whom card was issued if different from above

If a student withdraws or a course is cancelled, the refund will be made only as a credit to the student's MasterCard or VISA account.

Full payment must accompany all registrations.

Method of Payment

O VISA O MasterCard
O Check O Other

Make checks payable to University of Massachusetts—Continuing Education

Send checks and forms to
Division of Continuing Education
Box C
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

For Office Use
Recd _____ Date _____
Batch _____ Bank No. _____

Course Fees

Undergraduate	$54.00/credit
Graduate	$67.50/credit

Please Note:

This form is to be used only when registering for credit courses. To register for non-credit courses, please use the form on page 23.

Please calculate payment below.

Course and Lab Fees (total)*	
Total Service Fees	$46.25
Additional Fees	
Subtotal	
Late Fee (if applicable)	$20.00
Total Payment Enclosed	

* Remember to make out a separate check for the total course and lab fee for each course.

When you use this form to register by mail, your cancelled checks will be your receipt.

Academic Calendar

	First Six-Week Session	First Four-Week Session	Second Six-Week Session	Second Four-Week Session
Registration Deadline	May 23	May 23	July 3	June 27
Late Registration*	May 27–30	May 27–30	July 7–11	June 30–July 3
Classes Begin	June 2	June 2	July 14	July 7
Add/Drop Deadline	June 6	June 6	July 18	July 11
Holidays	June 16, July 4	June 16	—	—
Pass/Fail and Withdrawal Deadline	July 3	June 17	August 1	July 18
Last Day of Class and Final Exam	July 10	July 2	August 21	August 5

*A $20 late fee will be assessed during these periods.

Note: Computer science courses and other special courses and programs may have different starting and ending dates. Please be sure to consult the description of the course or program in which you are interested for specific information.

Note: Registration for students who qualify to receive total or partial course and/or fee waivers will be conducted during the appropriate late registration period for that course or courses. (See Course Fee Waiver and Remission Policy, p. 26)

Registration for Summer Session Courses

Advance Registration by Mail

To register by mail for summer session courses, fill out the registration form included in this bulletin and send the form to:

Summer Session Registration
Healey Library, 2nd Floor Lobby
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

Registrations will be accepted on the basis of available space. Full payment must accompany the registration form (see "Fees and Payments").

Advance Registration by Telephone

Students wishing to pay course and service fees by using MasterCard or VISA may register by telephone. To register by telephone for summer session courses, simply call **929-7933.**

Note: Unfortunately, telephone registration is available only to students wishing to pay course and service fees by using MasterCard or VISA.

Walk-In Registration

Students who would rather register in person may do so on the dates and at the times listed in the Academic Calendar. Walk-in registration will take place at the Summer Session Registration Center at the Harbor Campus (Healey Library, 2nd Floor Lobby) during the following times:

M–Th 8:30am–6:00pm, F, 9:00am–4:00pm

Late Registration

Late registration will take place at the Summer Session Registration Center at the Harbor Campus (Healey Library, 2nd Floor Lobby) during the periods listed in the Academic Calendar. Students registering during these periods must pay a $20.00 late registration fee.

Further Information

For further information about registering for summer session courses, call **929-7900** or **956-1000.**

Continuing Education Office

Harbor Campus
Wheatley Hall, 2nd Fl., Rm. 203, 929-7900
M–Th, 9:00am–5:00pm; F, 9:00am–4:30pm

Downtown Center
1st Fl., Rm. 114, 956-1000
M–Th, 9:00am–5:00pm; F, 9:00am–4:30pm

The Division of Continuing Education is responsible for the planning and supervision of the summer sessions. Although actual registration takes place at the Summer Session Registration Center, the Continuing Education Office is set up to distribute information and resolve problems.

Summer Session Registration Center

Harbor Campus
Healey Library, 2nd Fl., Lobby
M–Th, 8:30am–6:00pm; F 9:00am–4:00pm

Advance Registration for all Sessions—April 1–May 23

Students are urged to register as early as possible before the summer sessions begin, both to assure themselves places in courses of their choice, and to assure that the courses they wish to enroll in will be taught. Students can register during this period for courses scheduled to begin at any time during the summer.

One week before each session begins, all courses in that session that have not reached minimum enrollment will be cancelled. Late registrations for courses that have reached minimum enrollment will be accepted during the Add/Drop period until maximum enrollment is reached.

Location Key

Harbor Campus (HC)

W Wheatley Hall
M McCormack Hall
S Science Building
H Healey Library
A Administration Building
C Clark Athletic Center

Building, floor, and room numbers are given in that order for specific locations. Example: M/2/618 refers to McCormack Hall, second floor, room 618.

Downtown Center (DC)
The first digit of each number indicates the floor.

Winter, 1985–86
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The University of Massachusetts at Boston is an affirmative action/equal opportunity employer and prohibits discrimination on the basis of race, color, sex, age, religion, national origin, handicap condition, or veteran status in its employment, in the recruitment, admission, and treatment of students, and in its policies and programs, as required by Federal and State laws and regulations. Inquiries concerning these laws and regulations should be addressed to the Director of Affirmative Action, Administration Building, Harbor Campus, University of Massachusetts at Boston.

The University of Massachusetts at Boston is accredited by the New England Association of Schools and Colleges. The University of Massachusetts at Boston is a member of the North American Association of Summer Sessions and the National University Continuing Education Association.

**Interested?
Take a look:
Classics C171,
"The Greeks," p. 7**

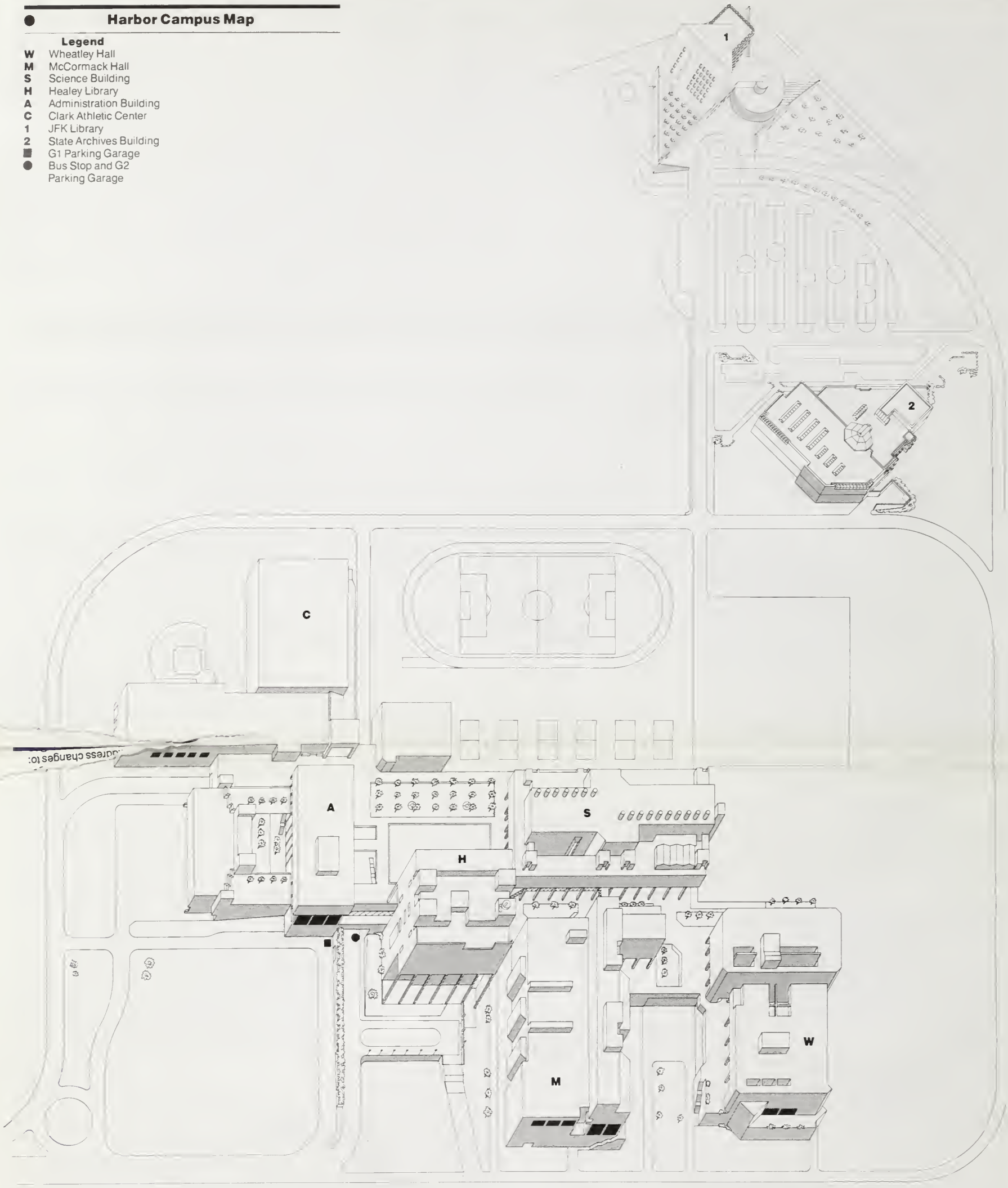
Publications Office
86.076/3.86/100M

Campus Map and Travel Directions

Harbor Campus Map

Legend

- **W** Wheatley Hall
- **M** McCormack Hall
- **S** Science Building
- **H** Healey Library
- **A** Administration Building
- **C** Clark Athletic Center
- **1** JFK Library
- **2** State Archives Building
- ■ G1 Parking Garage
- ● Bus Stop and G2 Parking Garage



Harbor Campus

The Harbor Campus is only three miles from downtown Boston and is easily accessible by public or private transportation. *From the north or west:* Take the Southeast Expressway to exit 15. Turn left onto Columbia Road. Enter the rotary and take the first right (Morrissey Boulevard). Bear right of the traffic island, following the UMass/Boston sign. Proceed past the *Boston Globe* building. Turn left into the campus. *From the South:* Take the Southeast Expressway to exit 14 (near the Boston Gas tanks). Follow Morrissey Boulevard northward to the campus. Parking is available in two underground garages. Operators of all vehicles, except motorcycles, must pay $2.00 per day to park in a garage (motorcycles: $1.25 per day). Discount tickets authorizing ten days' parking are also available at the parking booths for $15.00 (cars) or $7.50 (motorcycles). *On the MBTA:* Take the Ashmont train on the Red Line to JFK/UMass (formerly Columbia) station. Transfer to the free University shuttlebus in the T parking lot.

Downtown Center

The Downtown Center is at the corner of Arlington and Stuart Streets in Park Square, Boston, within a short distance of the Green Line Arlington stop.

Academic Skills

Academic Skills 034
Fundamentals of Algebra

This is a course for students who have mastered arithmetic but not beginning algebra. They are either students who never studied algebra in high school, or who studied it so long ago or so ineffectively that they must approach all introductory algebra topics as new rather than review material. The course has two major goals: 1) to introduce students to algebraic notation and concepts so that in one reasonably paced semester in Math 110 they can learn the material needed to enter the pre-calculus course (Math 130); 2) to develop successful study and test-taking techniques so that students will be prepared to handle the pressure of regular math department courses and exams. The course will cover the following topics: integral components; polynomials—their simplification, combination, and evaluation; linear equations—how to solve them, graph them, and use them to solve word problems; ratios and proportions. The course will also introduce such topics as systems of equations, multiplication, and factoring of polynomials. Note: The fee for this two-credit course is $162.00.
Prerequisite: Math Diagnostic Test only.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/019, Staff, Sched No 707002, 2 Credits

Accounting and Finance

AF 210
Financial Accounting

Presents the theory and techniques of financial accounting. The course encompasses the basic functions of collecting, processing, and reporting accounting information for interested third parties (e.g., owners, investors, and government) and enables students to analyze, interpret, and use accounting information effectively.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/2/124, Staff, Sched No 701008, 3 Credits
June 2–July 10, MTuWTh 10:00–11:30am, HC W/2/124, Staff, Sched No 701058, 3 Credits
June 2–July 10, MW 8:15–11:30am, HC W/2/125, Staff, Sched No 701103, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC W/2/124, Staff, Sched No 701153, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC W/2/158, Mr. Lyken, Sched No 701353, 3 Credits
June 2–July 10, TuTh 6:00–9:00pm, DC 622, Staff, Sched No 701408, 3 Credits
July 14–August 21, MW 6:00–9:00pm, HC W/2/124, Staff, Sched No 701458, 3 Credits
July 14–August 21, TuTh 6:00–9:00pm, DC 509, Staff, Sched No 701503, 3 Credits

AF 211
Managerial Accounting

Presents the theory and techniques of managerial accounting, from the particular perspective of the manager. The course covers the identification and analysis of the behavior of costs within the organization, and illustrates how managers use such knowledge for planning and control. Major topics include responsibility accounting, comprehensive and cash budgeting, and standard job order and process cost systems.
Prerequisite: AF 210.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/2/126, Staff, Sched No 701703, 3 Credits
June 2–July 10, MTuWTh 10:00–11:30am, HC W/2/126, Staff, Sched No 701753, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC W/2/126, Staff, Sched No 701808, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, DC 509, Staff, Sched No 702002, 3 Credits
July 14–August 21, MW 6:00–9:00pm, DC 509, Staff, Sched No 702052, 3 Credits
July 14–August 21, TuTh 6:00–9:00pm, HC W/2/124, Staff, Sched No 702107, 3 Credits

Note: any student wishing to take AF 301 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; and 3) must have completed all course prerequisites with a C– or better. Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services before the student may enroll in AF 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

AF 301
Financial Management

(See note above.)
Introduces financial management, both short-term and long-term, including working capital management and budgeting, leverage, debt capacity, dividend policy, and time-value of money. The course also acquaints students with the kinds of securities issued by public and private entities.
Prerequisite: AF 210.
Day
June 2–July 10, MW 8:15–11:30am, HC W/2/158, Staff, Sched No 702307, 3 Credits
July 14–August 21, TuTh 8:15–11:30am, HC W/2/125, Mr Lyken, Sched No 702357, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC W/2/125, Staff, Sched No 702557, 3 Credits
July 14–August 21, MW 6:00–9:00pm, HC W/2/125, Staff, Sched No 702602, 3 Credits

American Studies

AmSt C205
The Fifties

The course will consider the culture of the 1950's including writers like Kerouac, Ellison, Hemingway, and Miller and phenomena such as the Cold War, McCarthyism, and the "other-directedness" that supposedly dominated the period. The work of social scientists like Riesman and Galbraith will be considered as well as that of novelists and playwrights.
Core Area: Historical and Cultural Studies.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC W/1/010, Mr Grosser, Sched No 703406, 3 Credits

AmSt C206
The Sixties

The course will focus on protest and the role of youth. Who protested and why? Was the phenomenon of the sixties an aberration or part of a larger radical tradition in America? What was the impact on the seventies? Readings will be drawn from participants in the student, black, feminist, and peace protest movements, from the intellectuals who defended and attacked them, and from the growing body of retrospective, analytic, and historical literature which attempts to explain what really happened in that tumultuous decade. Films will be shown when appropriate.
Core Area: Historical and Cultural Studies.
Day
June 2–July 10, MTuWTh 10:00am–11:30am, HC W/1/010, Mr Halprin, Sched No 703606, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC W/1/010, Mr Grosser Sched No 703656, 3 Credits

AmSt 390
The Kennedys of Boston

This course provides a background on the Kennedys and their times. It analyzes some of the political and cultural processes of which the Kennedys were a part, and in particular traces the rise of the family in the context of the Boston Irish. Audio-visual material will be used where appropriate to examine the role played by the media, that is, print, film, and television, then and now, in forming popular images of the Kennedy family.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/205, Mr Danker, Sched No 703717, 3 Credits

Anthropology

Anth D102
Introduction to Archaeology and Biological Anthropology

The study of the biological and cultural heritage of humans. Topics include: primate and human evolution, evolution of prehistoric cultures, and human adaptation and variation.
Core Area: Natural Sciences.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/419, Mr Fazel, Sched No 704850, 3 Credits
Evening
July 14–August 21, MW 6:00–9:00pm, DC 523, Ms Ellis, Sched No 704905, 3 Credits

Anth E103
Introduction to Cultural Anthropology

The study of recent and contemporary human societies in cross-cultural perspective. Through the use of ethnographic accounts, the course analyzes and compares variations in processes of cultural change, and in cultural adaptations. Note: Anth D102 is *not* a prerequisite to Anth E103.
Core Area: Social and Behavioral Sciences.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/417, Ms Kavanagh, Sched No 705159, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, DC 503, Ms Kavanagh, Sched No 705109, 3 Credits

Anth C104
Culture Change, Past and Present

How and why do cultures and societies change? The clash between tribal societies and the modern industrial world, the conflicts of colonization, the invention or introduction of new technologies, and intensive trading are some of the factors that force cultures to adapt in response to new social, political, or economic environments. This course will explore how and why societies change, by analyzing contemporary and historical examples from around the world.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/419, Ms Ellis, Sched No 704250, 3 Credits

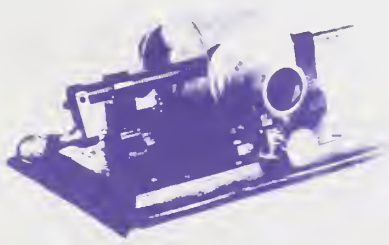
Anth C270
Indians of North America

An introductory survey of North American Indian societies and culture. Emphasis will be placed on the descriptive comparison of selected Indian societies, on their histories, and on problems in cross-cultural understanding.
Core Area: Historical and Cultural Studies.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/2/420, Mr Buckley, Sched No 704450, 3 Credits

Anth C271
Peoples and Cultures of the Middle East

An examination of historical and sociopolitical forces in the formation of the contemporary Middle East; the cultural, ethnic, and economic diversity of modern nation-states in this region; neo-colonialism and imperialism as persisting obstacles to development and progress in this part of the world; and the role of Islam in reformist and revolutionary movements.
Core Area: Historical and Cultural Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/624, Mr Fazel, Sched No 704650, 3 Credits

Interested?
Take a look:
"Critical and Creative Thinking," p. 20



See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Art

Art C100
Language of Art
The course teaches students to begin to understand the processes of artistic creation. It enables the student to grasp the expressive content of works of art in a wide variety of media and to analyze how the artist creates his/her effect. It is not an historical survey. Through lectures, discussions, field trips and museum visits, the student studies paintings, sculptures, and buildings with examples chosen as often as possible from the Boston area. The course addresses such concepts as rhythm, pacing, elements of stability versus change, and the possibilities of differing interpretations of subject matter through formal variations. It offers a solid introduction to the arts by developing the student's ability to see and analyze forms as the result of aesthetic and interpretive decisions.
Core Area: The Arts.
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC M/3/407, Ms Calo, Sched No 705559, 3 Credits

Art C199
Visual Thinking
This course serves as an introduction to the visual arts by emphasizing how one thinks visually. It provides training and exploration in the organization of sensory experiences—experiences which are already ordered in forms of art and design or which are encountered haphazardly in the world around us. Writing assignments will complement studio exercises, lectures, and selected readings dealing with issues such as space, light, color, and composition.
Core Area: The Arts.
Day
June 2–July 10, MTuW 8:15–11:00am, HC H/8/009, Ms Erman, Lab Fee: $25.00, Sched No 705759, 3 Credits

Art E250
Art of the Twentieth Century
An analysis of the art of the twentieth century involves fundamental issues of form and content shared by all the arts. Taking a threefold approach—formal, critical, and historical—this course examines the development of modern painting, sculpture, and architecture as well as the ascendant art forms of photography, video, and performance. It analyzes general theories and specific works in detail. Through class discussions, reading assignments, papers, and field trips, the student learns that the formal problems posed by twentieth-century visual art are closely related to those in literature, music, and theatre, for they are problems of structure and definition, harmony and rhythm, diction and coherence. The student thus develops critical capabilities that he or she can apply to works by Picasso or Eliot, Matisse or Ravel.
Prerequisite: Sophomore standing.
Core Area: The Arts.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/3/407, Ms Dugan, Sched No 705959, 3 Credits

Art E265
Film Analysis
[illegible] systematic study of film, because of its essentially interdisciplinary nature, must address concerns and problems common to other forms of artistic expression such as literature, theatre, painting, and photography. The particular approach taken in this course to the study of film offers an encounter with the works that goes beyond the conventional experience of theatre and TV viewing and employs special methods of projection that permit detailed analysis by means of the use of slow motion and still frame techniques. The films thus studied will include examples of classic Hollywood, contemporary American, and foreign feature films, and the documentary. The course is not primarily historical in emphasis; rather, its concerns are the visual language of film, its use as the vehicle for narrative and theme, and major film types and styles. Special attention is given to the analysis and interpretation of sequences from the films studied in class.
Prerequisite: Sophomore standing.
Core Area: The Arts.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/3/407, Mr Risse, Lab Fee: $20.00, Sched No 706153, 3 Credits

Art 210
Boston's Museums and Masterpieces
This course is designed to encourage an appreciation of the arts and to introduce the student to the museums of Boston. It will investigate major works of art from antiquity to the nineteenth century, all of which are in the collections of the Museum of Fine Arts, the Gardner Museum, the Fogg and other Boston museums. Classroom lectures and discussions will deal with historical and cultural contexts in which major artists and styles developed. These classroom sessions will alternate with visits to area museums and special exhibitions where questions of connoisseurship and style will be addressed.
Note: Tuesday meetings will be held at the Harbor Campus, Wednesday meetings at various Boston museums. Students should allow for travel time. This course does not meet requirements for the major in Art.
Day
June 2–July 10, TuW 11:00am–2:00pm, HC M/3/430, Ms Black, Sched No 706353, 3 Credits

Art 293
Photography I
An introduction to basic issues in photography. The mechanics of the camera, the techniques of the darkroom, and matters of creative and personal import are addressed through illustrated lectures, class critiques, and assigned lab hours. Some attention is given to the history of photography.
Prerequisite: One 100-level art course.
Day
Lect: June 2–July 10, TuWTh 12:00–4:00pm, HC H/8/025, Mr Angier, Sched No 706553, 4 Credits
Lab: June 2–July 10, MF 12:00–4:00pm, HC H/8/025, Mr Angier, Lab Fee: $30.00, Sched No 706608

Biology

Biol D101
The Basis of Life
The uniqueness of life within the physical universe. The matter and energy of life, the genetic code, molecular biology, and the origin and evolution of life. An overview for students in the humanities and social sciences of those features which distinguish living organisms from non-living things. No background in the natural sciences is required.
Core Area: Natural Sciences.
Day
June 2–July 2, MTuWThF 8:15–9:50am, HC W/2/200, Mr Hagar, Sched No 708206, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC W/2/200, Mr Halprin, Sched No 708256, 3 Credits

Biol D102
Evolutionary Biology
Designed for students in the social sciences and humanities. Those areas of genetics, ecology and evolution that form a unified approach to the study of organisms and populations. No background in the natural sciences is required.
Core Area: Natural Sciences.
Day
July 7–August 5, MTuWThF 8:15–9:50am, HC W/2/200, Mr Bawa, Sched No 708456, 3 Credits

Biol D111
General Biology I
An integrated course stressing the principles of biology. Life processes are examined primarily at the molecular and cellular levels. Intended for students majoring in biology or for non-majors who wish to take advanced biology courses.
Core Area: Natural Sciences.
Day
Lect: June 2–July 10, MTuWTh 10:00–11:30am, HC M/1/409, Mr Fregeau, Sched No 708656, 4 Credits
Lab: June 2–July 10, MW 12:00–3:00pm, Staff, Lab Fee $20.00, Sched No 708751
Evening
Lect: June 2–July 10, MW 6:00–9:00pm, HC M/1/409, Mr Murray, Sched No 708701, 4 Credits
Lab: June 2–July 10, TuTh 6:00–9:00pm, Staff, Lab Fee $20.00, Sched No 708806

Biol D112
General Biology II
An integrated course stressing the principles of biology. Life processes are examined primarily at the organismal and population levels. Intended for students majoring in biology or for non-majors who wish to take advanced biology courses.
Prerequisite: Biol D111.
Core Area: Natural Sciences.
Day
Lect: July 14–August 21, MTuWTh 10:00–11:30am, HC M/1/409, Mr Buckley, Sched No 709000, 4 Credits
Lab: July 14–August 21, MW 12:00–3:00pm, Staff, Lab Fee: $20.00, Sched No 709105
Evening
Lect: July 14–August 21, MW 6:00–9:00pm, HC M/1/409, Mr Bradley, Sched No 709050, 4 Credits
Lab: July 14–August 21, TuTh 6:00–9:00pm, Staff, Lab Fee: $20.00, Sched No 709155

Biol 108
Introduction to Nutrition
Introduction to the elements of nutrition with emphasis on nutrition for humans; examination of food stuffs and nutritional quality, physiology of food utilization, food quality regulations, and the global ecology of food production. No background in the natural sciences is required.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/2/200, Ms Harrison, Sched No 709355, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC W/2/200, Mr Bradley, Sched No 709400, 3 Credits
July 14–August 21, MW 6:00–9:00pm, HC W/2/200, Mr Rhoads, Sched No 709450, 3 Credits

Biol 207
Anatomy and Physiology I
A study of the human organism, correlating structure and physiological mechanisms. Emphasis on skin, the special senses, and the skeletal, articular, muscular, nervous, and endocrine systems. Required of nursing majors.
Prerequisite: Biol D111 or equivalent.
Day
Lect: June 2–July 2, MTuWTh 9:00–11:00am, HC M/2/008, Mr Guimond, Lab Fee $20.00, Sched No 709850, 4 Credits
Lab: June 2–July 2, MW 11:00am–2:00pm, Staff, Sched No 709905
Lab: June 2–July 2, TuTh 11:00am–2:00pm, Staff, Sched No 709955

Biol 208
Anatomy and Physiology II
A continuation of Biol 207. Emphasis on the digestive, circulatory, respiratory, excretory, and reproductive systems. Required of nursing majors.
Prerequisite: Biol 207.
Day
Lect: July 7–August 5, MTuWTh 9:00–11:00am, HC W/1/088, Mr Yelle, Lab Fee: $20.00, Sched No 710152, 4 Credits
Lab: July 7–August 5, MW 11:00am–2:00pm, Staff, Sched No 710207
Lab: July 7–August 5, TuTh 11:00am–2:00pm, Staff, Sched No 710257

Biol 209
Medical Microbiology
An introduction to viruses, bacteria, fungi, and protozoa which may be pathogenic to man and animals; and to immunology, epidemiology, and clinical microbiology. The laboratory introduces sterile techniques, maintenance of pure cultures, isolation, identification, and immunological methods. This course is for nursing majors. Biology majors should take Biol 334 for microbiology.
Prerequisites: Biol D111; Chem D103 and D104, or Chem D107 and D108, or equivalent.
Day
Lect: July 14–August 21, MTuWTh 10:00–11:30am, HC W/2/200, Mr Rhoades, Lab Fee $40.00, Sched No 710457, 4 Credits
Lab: July 14–August 21, MW 12:30–3:30pm, Staff, Sched No 710502
Lab: July 14–August 21, TuTh 12:30–3:30pm, Staff, Sched No 710552

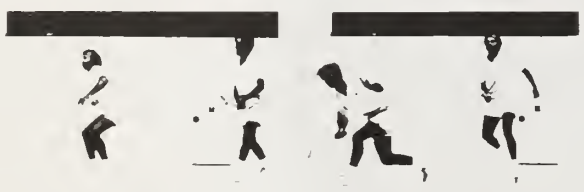
Special Program: Marine Biology on Nantucket Island

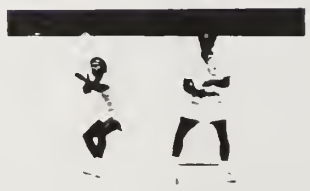
June 23–August 29
Every summer the Biology Department of UMass/Boston offers a small program of courses at the University's Field Station in Quaise. Students admitted to these courses will be housed at the Field Station, located on 114 acres of moor and private beach about four miles from the town of Nantucket. Students interested in these courses should contact Dr. John Ebersole in the Biology Department, telephone (617) 929-8400. Application deadline: May 15, 1986.

Biol 200
Field Biology on Nantucket Coastal Ecology
Investigations into the natural history and community dynamics of salt marshes, seagrass beds, mudflats, and beaches. Field exercises on the adaptations and interactions of marine organisms will be emphasized.
Prerequisite: Permission of instructor.
June 23–July 24, By Arrgt, Nantucket, Mr Gallagher/Mr Rex/Mr Shiaris, Lab Fee: $10.00, Sched No 709650, 5 Credits

Biol 346
Marine Ecology
The organisms of marine and coastal habitats and their adaptations to the physiochemical parameters of marine environments. The structure and function of marine communities and ecosystems. Laboratory and field work.
Prerequisite: Biol E211 and E252 or permission of instructor.
July 28–August 29, By Arrgt, Nantucket, Mr Ebersole, Lab Fee: $10.00, Sched No 710752, 5 Credits

Interested?
Take a look:
Physical Education 111, "Racquetball and Squash," p. 13





Black Studies

BlkSty 104
Drug Abuse and the Black Community
An overview of the history of and the current problems evolving from drug abuse in black urban communities in the United States. Discrimination, prejudice, limited access to opportunity structures, treatment for the use of drugs, the law, community institutions, and value systems are examined as they pertain to drug use in the black community.
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 503, Ms Wells, Sched No 711156, 3 Credits

Blk Sty 480
Afro-American Folklore
Students will analyze the significance of Afro-American folk tales, legends, music, dance, and folk humor, in order to develop an understanding of the Afro-American world view.
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 503, Ms Turner, Sched No 711356, 3 Credits

Chemistry

Chem D103
Chemical Principles I
Introduction to the fundamental principles of chemistry including structure, the periodic table of the elements, chemical bonding and molecular structure, states of matter based on kinetic theory, chemical kinetics, equilibria, and elementary thermodynamics. Laboratory work presents an introduction to methods of quantitative chemical techniques.
Core Area: Natural Sciences.
Day
Lect: May 29–July 10, MTuWTh 10:00–11:15am, HC S/1/006, Mr Weibrecht, Mr Zompa, Sched No 711756, 4 Credits
Disc: May 29–July 10, Tu 11:30am–12:20pm, HC S/1/006, Staff, Sched No 712005
Disc: May 29–July 10, W 11:30am–12:20pm, HC S/1/006, Staff, Sched No 712055
Disc: May 29–July 10, Th 11:30am–12:20pm, HC S/1/006, Staff, Sched No 712116
Lab: May 29–July 10, MW 12:30–3:30pm, Staff, Lab Fee: $45.00, Sched No 711851
Lab: May 29–July 10, TuTh 12:30–3:30pm, Staff, Lab Fee: $45.00, Sched No 711906
Evening
Lect: May 29–July 10, MTuWTh 5:30–6:45pm, HC S/1/006, Mr Carter, Sched No 711801, 4 Credits
Disc: May 29–July 10, W 7:00–7:50pm, HC S/1/006, Sched No 712100
Lab: May 29–July 10, TuTh 7:00–10:00pm, Staff, Lab Fee: $45.00, Sched No 711956

Chem D104
Chemical Principles II
Introduction to electrochemistry, oxidation-reduction reactions, acid-base systems, and a survey of the chemical properties of elements based on principles already introduced. Laboratory work presents qualitative and quantitative analysis.
Prerequisite: Chem D103.
Core Area: Natural Sciences.
Day
Lect: July 14–August 21, MTuWTh 10:00–11:15am, HC S/1/006, Staff, Sched No 712300, 4 Credits
Disc: July 14–August 21, Tu 11:30am–12:20pm, HC S/1/006, Staff, Sched No 712550
Disc: July 14–August 21, W 11:30am–12:20pm, HC S/1/006, Sched No 712605
Disc: July 14–August 21, Th 11:30am–12:20pm, HC S/1/006, Sched No 712116
Lab: July 14–August 21, MW 12:30–3:30pm, Staff, Lab Fee: $45.00, Sched No 712405
Lab: July 14–August 21, TuTh 12:30–3:30pm, Staff, Lab Fee: $45.00, Sched No 712455
Evening
Lect: July 14–August 21, MTuWTh 5:30–6:45pm, HC S/1/006, Staff, Sched No 712350, 4 Credits
Disc: July 14–August 21, W 7:00–7:50pm, HC S/1/006, Staff, Sched No 712655
Lab: July 14–August 21, TuTh 7:00–10:00pm, Staff, Lab Fee: $45.00, Sched No 712500

Chem D107
Introduction to Chemistry I
A survey of the theoretical principles of general inorganic chemistry. Topics include atomic and molecular structure, bonding, chemical reactions, solution, pH, stoichiometry and radiochemistry.
Core Area: Natural Sciences.
Day
Lect: June 2–July 10, MTuWTh 9:00–10:15am, HC M/2/423, Mr Pappas, Sched No 712855, 4 Credits
Disc: June 2–July 10, Th 10:30–11:20am, HC M/2/423, Staff, Sched No 712950
Lab: June 2–July 10, MW 10:30am–12:30pm, Staff, Lab Fee: $35.00, Sched No 712900

Chem D108
Introduction to Chemistry II
A brief survey of organic and biological chemistry. Topics include: structure, nomenclature and the nature of organic compounds. Emphasis is on preparation for biological applications. Carbohydrates, lipids, proteins, and nucleic acids are introduced. The structures and metabolism of important biochemical molecules are considered.
Prerequisite: Chem D107.
Core Area: Natural Sciences.
Day
Lect: July 14–August 21, MTuWTh 9:00–10:15am, HC M/2/423, Staff, Sched No 713154, 4 Credits
Disc: July 14–August 21, Th 10:30–11:20am, HC M/2/423, Staff, Sched No 713259
Lab: July 14–August 21, MW 10:30am–12:30pm, Staff, Lab Fee: $35.00, Sched No 713209

Chem 253
Organic Chemistry I
An intensive survey of structure, reactions, and synthesis of the main classes of organic compounds. Laboratory illustrates the preparation, purification, and identification of organic compounds by classical and instrumental methods.
Prerequisite: Chem D104.
Day
Lect: June 2–July 10, MTuWTh 10:00–11:30am, HC S/1/009, Mr Cerny, Sched No 713459, 4 Credits
Disc: June 2–July 10, M 11:30am–12:20pm, HC S/1/009, Staff, Sched No 713576
Disc: June 2–July 10, Tu 11:30am–12:20pm, HC S/1/009, Staff, Sched No 713554
Disc: June 2–July 10, Th 11:30am–12:20pm, HC S/1/009, Staff, Sched No 713560
Lab: June 2–July 10, MW 1:00–4:00pm, Staff, Lab Fee: $45.00, Sched No 713504

Chem 254
Organic Chemistry II
A continuation of Chemistry 253.
Day
Lect: July 14–August 21, MTuWTh 10:00–11:30am, HC S/1/009, Staff, Sched No 713754, 4 Credits
Disc: July 14–August 21, Tu 11:30am–12:20pm, HC S/1/009, Staff, Sched No 713904
Disc: July 14–August 21, M 11:30am–12:20pm, HC S/1/009, Staff, Sched No 713954
Disc: July 14–August 21, Th 11:30am–12:20pm, HC S/1/009, Staff, Sched No 713960
Lab: July 14–August 21, MW 1:00–4:00pm, Staff, Lab Fee: $45.00, Sched No 713809
Lab: July 14–August 21, TuTh 1:00–4:00pm, Staff, Lab Fee: $45.00, Sched No 713859

Classics

Clsics C171
The Greeks
Selected masterpieces of Greek literature (Homer, the tragedians, Plato, Aristophanes) are read in modern English translation. Background lectures and discussions emphasize characteristic values of ancient Greek civilization.
Core Area: Philosophical and Humanistic Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/012, Ms Zumwalt, Sched No 714358, 3 Credits

Economics

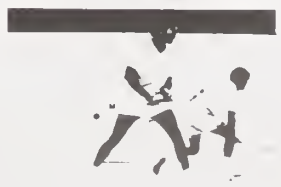
Econ E101
Introductory Economics I
A broad introductory survey in which special attention will be given to the role of economic principles in analyzing and understanding current economic problems. Emphasis will be placed on the functioning of markets and on examining the behavior of individual economic units such as the business firm and the consumer (microeconomics). Other areas of emphasis will vary from section to section and may include: industrial organization, income distribution, international trade, economics of the environment and other topics. (May be taken after Econ E102.)
Prerequisite: Math D110 or equivalent.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/208, Mr Ferleger, Sched No 717055, 3 Credits
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/208, Mr Millman, Sched No 717100, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/208, Mr Millman, Sched No 717205, 3 Credits
July 14–August 21, MTuWTh 11:45am–1:15pm, HC M/2/208, Mr Abraham, Sched No 717255, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, DC 510, Mr Martin, Sched No 717150, 3 Credits
July 14–August 21, TuTh 6:00–9:00pm, DC 510, Mr Martin, Sched No 717300, 3 Credits

Econ E102
Introductory Economics II
A broad introductory survey in which special attention will be given to the role of economic principles in analyzing and understanding current economic problems. Emphasis will be placed on examining the overall functioning of the economy and on dealing with such matters as unemployment, inflation and recession. Other areas of emphasis will vary from section to section and may include: economics of government spending and taxation, economic development, alternative economic systems, and other topics. (May be taken before Econ E101.)
Prerequisite: Math D110 or equivalent.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/211, Mr Banerjee, Sched No 717500, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/211, Mr Chiong, Sched No 717605, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 510, Mr Martin, Sched No 717550, 3 Credits
July 14–August 21, MW 6:00–9:00pm, DC 510, Mr Martin, Sched No 717655, 3 Credits

Econ 201
Economic Theory I, Microeconomics
Analysis of consumer behavior, the theory of production equilibrium of the firm and the industry, market structures and the pricing of factors of production.
Prerequisite: Econ E101
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/208, Mr Millman, Sched No 717855, 3 Credits

Econ 202
Economic Theory II, Macroeconomics
Analysis of the forces determining the level and structure of gross national output, and those government policies which attempt to affect economic activities in the United States.
Prerequisites: Econ E101 and E102.
Day
July 14–August 21, MTuWTh 11:45am–1:15pm, HC M/2/211, Mr Millman, Sched No 718059, 3 Credits

Econ 205
Statistical Methods
A non-calculus introduction to statistical inference. A primary objective is to familiarize the students with common statistical concepts so they will be able to make intelligent evaluations of technical reports. The first half of the course covers probability, including common distributions. The second half studies hypothesis testing, including T - Tests, goodness of fit, contingency tables, analysis of variance, regression, and correlation.
Prerequisite: Math D124 (or placement into Math D130) and Economics E101 or E102.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/211, Mr Chiong, Sched No 718259, 3 Credits



See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Econ 325
American Economic History
This is a course in the economic history of the United States. It begins with a study of the colonial period in order to make clear the economic basis of the Revolutionary War; then covers the industrial revolution in the United States and the economic basis for slavery and the Civil War; and finally analyzes such twentieth century issues as the broad-scale conflict between capital and labor during and after WWI, the weakness of the U.S. economy during the 1920s, and the Great Depression.
Prerequisite: Econ E101 or E102.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/209, Mr Ferleger, Sched No 718459, 3 Credits

Econ 331
Money and Financial Institutions
An economic analysis of financial institutions and markets in the American economy. Institutional and economic factors in the determination of the money supply are studied. Included are the commercial banking system and the money and capital markets. Policy making, both formulative and implementative, by the central bank is emphasized. Current policy issues are debated.
Prerequisites: Econ E101 and E102.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/208, Mr Abraham, Sched No 718659, 3 Credits

Econ 336
Economic Development
The economic meaning of underdevelopment, evaluation of alternative "strategies" for economic growth, the role played by different kinds of resources, and the interaction of problems in the underdeveloped countries of Africa, Asia, and Latin America with the policies of the developed countries.
Prerequisites: Econ E101 and E102.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/211, Mr Banerjee, Sched No 718859, 3 Credits

Econ 417
Public Finance
The incidence and effects of taxation, government expenditure programs, and public debt operations of federal, state and local governments.
Prerequisite: Econ 202; or Econ 201 and E102.
Evening
June 2–July 10, MW 6:00–9:00pm, HC M/2/211, Mr Abdullah, Sched No 719053, 3 Credits

Econ 432
Industrial Organization
A theoretical framework for the analysis and evaluation of the performance of American industry; examination of a group of American industries to illustrate the usefulness of economic theory in explaining price and output policy; and analysis of anti-trust activities as a public policy designed to promote better market performance.
Prerequisite: Econ 201.
Evening
July 14–August 21, MW 6:00–9:00pm, HC M/2/211, Mr Abdullah, Sched No 719253, 3 Credits

Engineering

Engin 201
Digital Systems Theory (Electrical Engineering
An introductory to the theory of digital circuits stressing general techniques for the analysis and synthesis of combinational and sequential logic systems.
Note: Students taking Engineering 201 cannot receive credit for Physics 374.
Prerequisite: Sophomore standing, engineering major.
Day
June 2–July 10, MTuWTH 8:30–10:00am, HC S/2/066, Mr Lele, Sched No 724373, 3 Credit

English

Note: Freshman English (English 101 and 102) is prerequisite for all English courses above the 100-level. For nonmajors, one 200-level English course is prerequisite for all 300- and 400-level English courses. These requirements may be modified or waived for certain courses; see the following course descriptions for such changes. The student who is strongly motivated to take a course for which he or she has not satisfied the prerequisites should contact the instructor for advice and permission.

Engl 101
Freshman English I
Small class instruction and practice in grammar, rhetoric, and the articulation of logical thought. Practice in writing for college courses on various kinds of topics, many from experience and observation, chosen to develop the student's confidence and ability. Readings and materials vary from section to section, but all sections require a minimum of eight 600-word papers.
Note: This course satisfies the first half of the College of Arts and Sciences writing requirement.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/1/420, Staff, Sched No 721959, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC M/1/420, Staff, Sched No 722058, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 621, Staff, Sched No 722008, 3 Credits
July 14–August 21, MW 6:00–9:00pm, HC M/1/420, Staff, Sched No 722103, 3 Credits

Engl 102
Freshman English II
Continuation of Engl 101, with emphasis on topics and writing assignments of the kinds encountered in many types of college courses. Readings and materials vary from section to section, but all sections require a minimum of seven papers, including a longer research paper.
Note: This course satisfies the second half of the College of Arts and Sciences writing requirement.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/1/415, Staff, Sched No 722608, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC M/1/415, Staff, Sched No 722658, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 521, Staff, Sched No 722703, 3 Credits

Engl C130
Introduction to the Art of Literature
Fiction, poetry, drama, essays—what they are and what they mean. An introduction to ways of seeing and understanding literature—its genres, its forms, its styles, its methods and meanings. We will explore the common ground between literature and the other arts, while keeping in view the crucial differences.
Core Area: The Arts.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC W/1/062, Staff, Sched No 720450, 3 Credits

Engl C201
Five Major British Writers
Representative works by five of the most important writers from the fourteenth to the nineteenth century, studied as introductions to philosophical and humanistic studies, explored as reflecting and shaping the leading ideas, assumptions, and values of their ages. Works by Chaucer, Shakespeare, and other authors such as Milton, Swift, and Austen, with films and background lectures on the philosophical and historical contexts of the works and their authors. Instruction in analytical reading and writing will be provided.
Core Area: Philosophical and Humanistic Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/207, Staff, Sched No 720650, 3 Credits

Engl C204
The Nature of Literature: Fiction
An introduction to various critical approaches to the understanding and appreciation of fiction. Close reading of short stories and novels with special attention to the language and forms of fiction, as well as the writing of critical and interpretive papers. Comparison of fiction both to the visual arts (e.g., point of view, setting, imagery) and to music (e.g., prose rhythm, duration, thematic repetition, and variation). Attention to developing a sense of the milieu in which an artist works.
Core Area: The Arts.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/207, Staff, Sched No 720850, 3 Credits

Engl C210
Introduction to Creative Writing
An introduction to the arts through the medium of writing as well as reading poetry, fiction, and drama. Student writing will be submitted weekly and discussed in class.
Core Area: The Arts.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/207, Staff, Sched No 721054, 3 Credits

Engl E215
Intermediate Composition
A composition course offering continued practice in expository and argumentative writing. The emphasis will be on the development of rhetorical concepts—definition, exemplification, comparison, etc.—for both analytic and compositional purposes, for both critical reading and the organization and development of papers. Readings will be short, complex passages representative of the kinds of discourse met in college classes and texts.
Core Area: The Arts.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/420, Staff, Sched No 721254, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/207, Staff, Sched No 721359, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC M/2/420, Staff, Sched No 721309, 3 Credits

Engl E230
Introduction to American Literature I
Prose and poetry of American writers from the first explorers through the Civil War: the ages of Puritanism, Revolution, and Romanticism. Among the texts, many of which are historical, philosophical, political, and religious in nature, will be works by William Bradford, John Smith, Anne Bradstreet, John Winthrop, Thomas Paine, Benjamin Franklin, Jonathan Edwards, Phillis Wheatley, Indian orators, Hawthorne, Poe, Emerson, Whitman, Melville, and Frederick Douglass.
Core Area: The Arts.
Evening
June 2–July 10, MW 6:00–9:00pm, HC M/2/207, Staff, Sched No 721559, 3 Credits

Engl E231
Introduction to American Literature II
American life and letters in times of boom and bust after the Civil War—the Great Barbecue, the Brown Decades, the Great War, Depression and after—studied in the fiction of such writers as Twain, James, Hemingway, Fitzgerald, Baldwin, and Bellow; poets such as Dickinson, Frost, Stevens, Lowell, and Plath; and dramatists such as O'Neill and Miller. Light shed through literary art on nineteenth and twentieth century American problems, and on the conflict between American Dream and American reality.
Core Area: The Arts.
Evening
July 14–August 21, MW 6:00–9:00pm, HC M/2/207, Staff, Sched No 721759, 3 Credits

Engl 106
Oral Communication
The course focuses on improvement of interpersonal, small group, and public communications skills. Through readings, journals, class discussions, and other activities, we will explore the following: self-concept and perception, listening and responding, language and non-verbal behaviors, interviewing, problem-solving and decision-making, formal elements of speech-making, and the evaluation of one's own and others' public messages.
Evening
June 2–July 10, MW 6:00–9:00pm, HC M/1/420, Mr Fox, Sched No 723157, 3 Credits

Engl 324
Short Story
A study of the short story, chiefly as a genre of this century. The course will trace its development from nineteenth century origins, concentrating its reading on such American and Irish writers as Welty, O'Connor, Cheever, Lavin, Joyce, Hemingway, Montague, and considering as well the statements made by short story writers on the poetics of short fiction.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/621, Staff, Sched No 723357, 3 Credits

Engl 333
Tragedy
The course will explore both the changing and the enduring aspects of tragedy by examining tragedic works of different ages, from ancient Greece to modern times. Readings may include such works as *Oedipus, Thyestes, Dr. Faustus, Macbeth, The White Devil, King Lear, Samson Agonistes, Desire Under the Elms,* and *Death of a Salesman,* examined in the light of essays about the vision of tragedy, the nature of tragic action, the tragic hero, tragic times, among others. Students will be encouraged to evaluate theories against one another and against their own experience of the literature, in order to formulate their own ideas about the nature of tragedy.
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC M/2/207, Mr Petronella, Sched No 723557, 3 Credits

Engl 342 History of the English Language
What English is descended from, what it is related to, how it has changed and is still changing. Emphasis on changes in sound and grammar; learning a system for analyzing, classifying and transcribing speech sounds; becoming familiar with classical grammar in order to understand grammatical changes.
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC W/1/055, Mr Bruss, Sched No 723618, 3 Credits

Engl 410
The Modern Period
A study of the phenomenon of "modernism" in, roughly, the first half of the twentieth century in Britain and America. Reading and discussion of such writers as Yeats, Joyce, Lawrence, Woolf, Eliot, Hemingway, Pound, and Faulkner.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/207, Staff, Sched No 723757, 3 Credits

**Interested?
Take a look:
Art 210,
"Boston's Museums and Masterpieces," p. 6**

English as a Second Language

Engl 101E
Freshman English I
Practice in writing on various kinds of topics chosen to develop students' confidence and ability as writers. Readings and materials will vary from section to section, but all sections will require a minimum of seven papers. This special ESL section of Freshman Composition is designed to meet the special needs of ESL students. In particular, the course emphasizes English syntax from a non-native point of view. For bilingual students only.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/1/420, Staff, Sched No 722303, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC M/1/421, Staff, Sched No 722408, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 521, Staff, Sched No 722353, 3 Credits

Engl 102E
Freshman English II
Continued practice in writing on various topics with an emphasis on more difficult readings, using the library and research skills. Students will again write about seven papers with one research paper. Attention given to English grammar from a non-native point of view. For bilingual students only.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/1/420, Staff, Sched No 722903, 3 Credits
July 14–August 21, MTuWTh 11:45am–1:15pm, HC M/1/420, Staff, Sched No 722953, 3 Credits

Essential Skills/Management

ESM 210
Critical Thinking and Writing
Offers instruction and practice in the writing of persuasive, analytical prose. The course encourages students to write with the clarity and coherence necessary for managerial problem solving. It is *required for students who have not passed the College of Management Writing Proficiency Examination by the time they have earned 30 credits.*
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/1/029, Ms Aziz, Sched No 724751, 3 Credits

ESM 211
Writing and Managerial Thinking
Builds on the critical thinking and writing skills students develop in ESM 210 and extends those skills to managerial thinking and writing. The course emphasizes clarity and structure in case analysis and project reports.
Note: any student wishing to take ESM 210 or ESM 211 must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university.
Evening
July 14–August 21, MW 6:00–9:00pm, HC W/1/029, Ms Aziz, Sched No 724951, 3 Credits

French

French D101
Elementary French I
Intensive practice in the four language skills, with an audio-lingual approach, for students who have no creditable training in French.
Core Area: Foreign Languages.
Day
Lect: June 2–July 2, MTuWTh 10:00am–12:45pm, HC M/1/417, Staff, Sched No 725355, 4 Credits
Lab: June 2–July 2, MTuWTh 1:00–1:40pm, Lab Fee: $4.00, Sched No 725400

French D102
Elementary French II
A continuation of French D101. Intensive practice in the four language skills, with an audio-lingual approach, for students who have completed French D101 or its equivalent.
Core Area: Foreign Languages.
Day
Lect: July 7–August 5, MTuWTh 10:00am–12:45pm, HC M/1/417, Staff, Sched No 725600, 4 Credits
Lab: July 7–August 5, MTuWTh 1:00–1:40pm, Lab Fee: $4.00, Sched No 725650

French D201
Intermediate French I
Intensive review and further study of grammar and audio-lingual skills with correlated intermediate-level readings in French literature or culture.
Prerequisite: French D102, D115 or equivalent.
Core Area: Foreign Languages.
Day
Lect: June 2–July 2, MTuWTh 10:00am–12:45pm, HC W/1/045, Staff, Sched No 725850, 4 Credits
Lab: June 2–July 2, MTuWTh 1:00–1:40pm, Lab Fee: $4.00, Sched No 725905

French D202
Intermediate French II
Continuation of French D201. Intermediate-level readings in French literature or culture. This course may be used to fulfill the second semester of the intermediate-level language requirement.
Prerequisite: French D201 or equivalent.
Core Area: Foreign Languages.
Day
Lect: July 7–August 5, MTuWTh 10:00am–12:45pm, HC W/1/045, Staff, Sched No 726109, 4 Credits
Lab: July 7–August 5, MTuWTh 1:00–1:40pm, Lab Fee: $4.00, Sched No 726159

French 301
Traduction et Stylistique
Intensive study of grammar, stylistics and composition. Problems of idiomatic translation based on contemporary English and American texts.
Prerequisite: French D202 or equivalent or permission of instructor.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/1/415, Staff, Sched No 726359, 3 Credits

Geography and Earth Science

GES D105
Earth Science I
An introduction to geoscience, integrating such fields as geology, meteorology, oceanography, and physical geography. Emphasis is placed on understanding geophysical processes of importance to human beings and their environment. Topics include the origin of the earth, energy and material resources, earthquakes, volcanism, tides, glaciation, atmospheric behavior, climate, and the environmental impact of technology.
Corequisite: GES 107.
Core Area: Natural Sciences.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC S/2/065, Mr. Looney, Sched No 727458, 3 Credits

GES D106
Earth Science II
Continuation of GES D105.
Prerequisite: GES D105.
Corequisite: GES 108.
Core Area: Natural Sciences.
Day
July 14–August 21, MTuWTh 11:45am–1:15pm, HC S/2/065, Mr Looney, Sched No 727658, 3 Credits

GES 107
Earth Science Laboratory I
A laboratory course designed to accompany GES D105. Basic experiments include: examination of minerals, rocks, and fluid earth materials; analysis of sedimentary processes and weathering; study of diverse geological processes using topographical and geological maps; aerial maps and photographs; field trips.
Corequisite: GES D105.
Day
June 2–July 10, W 1:30–4:30pm, Mr Looney, Sched No 728452, 1 Credit

GES 108
Earth Science Laboratory II
Continuation of GES 107. A laboratory course designed to accompany GES D106.
Corequisite: GES D106.
Day
July 14–August 21, W 1:30–4:30pm, Mr Looney, Sched No 728652, 1 Credit

GES D225
Weather and Climate
Atmospheric processes forming the basis for weather patterns and climatic development on a global scale. Major topics will include earth-sun relationships, heating and cooling of the atmosphere, atmospheric circulation, pressure patterns, air mass formation and frontal systems, vertical zonation of climate, and the Koppen System for evaluating and classifying climatic phenomena.
Prerequisite: Sophomore standing.
Core Area: Natural Sciences.
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC S/2/065, Mr Mensoian, Sched No 727858, 3 Credits

GES D226
Physical Oceanography
The development of oceanography as a science. An introduction to the early contributors to oceanography as well as to the evolution of vessels for oceanographic research, and to methods and techniques in physical oceanography. Discussion of geological setting and plate tectonics as this theory affects other areas of oceanography. The study of coastal processes and their effect on the coast, especially as a consequence of the Blizzard of 1978. The course concludes with a consideration of the origin of sea water, its movements (currents, tides, waves, etc.), and its composition.
Prerequisite: Sophomore standing or permission of instructor.
Core Area: Natural Sciences.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC S/2/065, Mr Looney, Sched No 728052, 3 Credits

GES D227
Marine Resources
The course examines, through discussion and experiment, the multiple resources of the sea. Topics include military resources, marine transportation, recreation, minerals, medicines, and drugs derived from the sea and from fishing. Selected applications of maritime law will be discussed when appropriate. Students are expected to participate in field experiences involving recreational boating and marsh/beach studies.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC S/2/065, Mr Looney, Sched No 728252, 3 Credits

German

Ger D101
Elementary German
For students with no creditable training in German. Work in the four language skills.
Core Area: Foreign Languages.
Day
Lect: June 2–July 2, MTuWTh 8:15–10:45am, HC M/2/415, Staff, Sched No 726759, 4 Credits
Lab: June 2–July 2, MTuW 11:00–11:45am, Lab Fee: $4.00, Sched No 726804

Ger D102
Elementary German
Continuation of Ger D101.
Core Area: Foreign Languages.
Day
Lect: July 7–August 5, MTuWTh 8:15–10:45am, HC M/2/415, Staff, Sched No 727008, 4 Credits
Lab: July 7–August 5, MTuW 11:00–11:45am, Lab Fee: $4.00, Sched No 727058

History

Hist C101
Leaders and History
This course examines the part played by outstanding personalities in history. Was their success due to their ability to shape events? Or merely due to favorable historical circumstances? Focus will be on famous individuals associated with major developments in modern history, such as Luther, Elizabeth, Peter the Great, Napoleon, Lenin.
Core Area: Historical and Cultural Studies.
Evening
June 2–July 10, MW 6:00–9:00pm, DC 517, Mr Hull, Sched No 729056, 3 Credits

Hist E111
Foundations of Western Civilization
After a brief survey of the ancient world, the course traces the political, economic, and cultural development of Western society from the early Middle Ages to 1715. Emphasis will be given to the critical analysis of primary sources.
Core Area: Historical and Cultural Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/428, Mr Bookbinder, Sched No 729256, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 524, Mr Bartson, Sched No 729301, 3 Credits

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Hist E112
Modern Western Civilization
This course traces the major political, economic, and cultural changes which have shaped Western society from the Enlightenment to the present. Special attention will be given to the critical analysis of primary source materials.
Core Area: Historical and Cultural Studies.
Day
July 14–August 21, MTuWTh 8:15–9:45am, M/2/428, Ms Mastboom, Sched No 729501, 3 Credits
Evening
July 14–August 21, MW 6:00–9:00pm, DC 519, Mr Callanan, Sched No 729551, 3 Credits

Hist E265
American History I
Introduces students at the intermediate level to the study of American history before 1877. The subject matter will encompass virtually all aspects of American society, and the interrelationship between social structure, economic development, everyday life, culture, and formal politics will be explored throughout the course. Special attention will be given to the nature of historical inquiry.
Prerequisite: Sophomore standing or permission of instructor.
Core Area: Historical and Cultural Studies.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/428, Mr Chu, Sched No 729751, 3 Credits

Hist E266
American History II
A survey of American history from 1877 covering the nature of American social structure, economic development, everyday life, culture, and formal politics. Special attention will be given to the nature of historical inquiry.
Prerequisite: Sophomore standing or permission of instructor.
Core Area: Historical and Cultural Studies.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/428, Mr Callanan, Sched No 729951, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 6-608, Ms Friedman, Sched No 729973, 3 Credits

Hist 371
Age of the American Revolution, 1763 to 1789
The development of the conflict with Britain, 1763–1776, the Revolutionary War and its effect, the forming of republican institutions for state and federal governments.
Prerequisite: Sophomore standing.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/428, Mr Chu, Sched No 730158, 3 Credits

Hist 478
Terrorism in Modern History
This course will study the phenomenon of terrorism by considering twentieth-century political movements that have used or are using terror to achieve their objectives. The course will develop an analytical framework for the study of terrorism and will use this framework in exploring the historical backgrounds, objectives, ideologies, tactics, and membership profiles of selected groups, and in considering the responses of their opponents. Among the groups studied will be the I.R.A., the Irgun, the P.L.O., the Baader-Meinhof, and the Ku Klux Klan.
Prerequisite: Junior standing or permission of instructor.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/2/624, Mr. Bookbinder, Sched No 730364, 3 Credits

Hist 479A
American Social History
By focusing on the changing nature of communities in the United States from 1607 to the present, this course will illuminate trends in American social history. An examination of such topics as demographics, gender and family relations, economics, racial and class relations, politics, and ideology will lead to an understanding of why and how relationships between individuals and society have changed throughout the course of American history.
Day
July 14–August 21, MTuWTh 11:45am–1:15pm, HC M/2/624, Ms Friedman, Sched No 730419, 3 Credits

Humanities

Human E250
American Popular Song
A study of the various elements and styles of lyrics and music in American popular songs, focusing on ballads from Irving Berlin to Rodgers and Hart to Stephen Sondheim, on rhythm and blues, and beyond.
Core Area: The Arts
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC W/1/005, Staff, Sched No 730758, 3 Credits

Italian

Ital D101
Elementary Italian I
For students who have no creditable training in Italian; intensive practice in the four language skills, with an audio-lingual approach.
Core Area: Foreign Languages.
Day
Lect: June 2–July 2, MTuWTh 10:00am–12:30pm, HC M/2/421, Staff, Lab Fee: $4.00, Sched No 731352, 4 Credits
Lab: June 2–July 2, By Arrgt, Sched No 731407

Ital D102
Elementary Italian II
The continuation of Ital D101.
Prerequisite: Ital D101 or equivalent.
Core Area: Foreign Languages.
Day
Lect: July 7–August 5, MTuWTh 10:00am–12:30pm, HC M/2/421, Staff, Lab Fee: $4.00, Sched No 731607, 4 Credits
Lab: July 7–August 5, By Arrgt, Sched No 731657

Labor Studies

LS 160
Introduction to Labor History and the American Labor Movement
Examines the work experience (wages, hours, conditions) in different eras from colonial times to the present; such forms of collective organization as unions and political parties; the nature of social class and class consciousness; the formation of and changes in working-class ideology; sources of cleavage such as ethnicity, race, skill, and sex; and the role of working people in the making of American history.
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 519, Mr Backman, Sched No 733855, 3 Credits

Latin

Lat D101
Fundamentals of Latin I
Designed to complete a standard basic textbook with Latin D102.
Core Area: Foreign Languages.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/1/418, Ms Zumwalt, Sched No 734259, 3 Credits

Lat D102
Fundamentals of Latin II
Continuation of Latin D101.
Core Area: Foreign Languages.
Day
July 7–August 5, MTuWTh 11:45am–1:45pm, HC M/1/418, Ms Zumwalt, Sched No 734459, 3 Credits

Law and Justice

LawJus 103A
Victimless Crimes: Pornography, Drug Abuse, and Gambling
This course will examine these so-called "victimless crimes" from philosophical and legal perspectives. Its concern will be with the question of whether we ought to legislate against certain types of socially disturbing activities and, if so, why. The course will focus on three major categories: pornography, drug abuse, and gambling.
Day
June 2–June 26, TuTh 11:45am–2:45pm, HC W/1/055, Ms Butler/Ms McWilliams, Sched No 732051, 2 Credits

LawJus 103B
Victimless Crimes: Prostitution and Homosexuality
This course will examine these so-called "victimless crimes" from philosophical and legal perspectives. Its concern will be with the question of whether we ought to legislate against certain types of socially disturbing activities and, if so, why. The course will focus on two major categories: prostitution and homosexuality. Readings will be from legal, philosophical, and sociological sources.
Day
June 30–July 10, TuTh 11:45am–2:45pm, HC W/1/055, Ms Butler/Ms McWilliams, Sched No 732251, 1 Credit

LawJus 103C
Child Abuse
The goal of this course is to provide students with a clearer understanding of child abuse as a social problem; some grasp of the psychological complexities of child abuse, for the victim and the perpetrator; and an awareness of Massachusetts laws dealing with child abuse; in order to address ways of decreasing the incidence of child abuse in our society.
Evening
June 2–June 26, MW 6:00–9:00pm, DC 521, Ms Herr, Sched No 732451, 2 Credits

LawJus 103D
Family Violence
This course will explore various kinds of family violence including marital rape, child abuse, incest, battered wives, and battered women's self-defense cases. These issues will be explored from legal, psychological, and sociological perspectives.
Evening
June 30–July 10 MW 6:00–9:00pm, DC 521, Ms Herr, Sched No 732651, 1 Credit

LawJus 103E
Divorce and Family Law
This course will examine the rapidly changing area of divorce and family law. In the last ten years, influenced in large part by the women's movement the issues of custody, support, and property division have undergone tremendous change. Class discussion will deal with the need for stronger support enforcement laws, and with new trends toward joint custody and mediation in the area of family law. The course will also examine the influence of the "new right" and the social, political and legal issues involved in divorce.
Day
July 14–August 7, TuTh 11:45am–2:45pm, HC W/1/055, Ms Butler/Ms McWilliams, Sched No 732851, 2 Credits

LawJus 103F
Children's Rights
Historically, children have been denied the rights enjoyed by most of us. This course will examine those rights presently afforded to children as well as the rights denied them. We will also trace the children's rights movement and the evolving view of children as citizens entitled to the protection of the law. We will focus on medical treatment, care and protection, and juvenile law.
Day
August 11–August 21, TuTh 11:45am–2:45pm, HC W/1/055, Ms Butler/Ms McWilliams, Sched No 733055, 1 Credit

LawJus 103G
Rape and Sexual Assault
This course will look at the legal, psychological and sociological aspects of rape and sexual assault in American society. The course will present a multi-dimensional approach to the subject that includes review of case law, actual individual accounts, films, and mock trials.
Evening
July 14–August 7, MW 6:00–9:00pm, DC 621, Ms Herr, Sched No 733255, 2 Credits

LawJus 103H
Incest
This course will look at the legal, psychological and sociological aspects of incest in American society. The course will present a multi-dimensional approach to the subject that includes review of case law, actual individual accounts, films, and mock trials.
Evening
August 11–August 21, MW 6:00–9:00pm, DC 621, Ms Herr, Sched No 733455, 1 Credit

Interested? Take a look: "Spanish in Cuernavaca, Mexico," p. 19

Management

MGT 130
Introduction to Business

Familiarizes students with the nature of business and its relationship to other institutions in society. The course examines business ownership, organization, management, marketing, human resources management, production, and finance. In addition, the course explores issues of the relationship between capitalism and business, the law and business, and government and business.

Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/2/127, Staff, Sched No 739554, 3 Credits
July 14–August 21, MTuWTh 11:45am–1:15pm, HC W/1/054, Staff, Sched No 739609, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 509, Staff, Sched No 739809, 3 Credits
July 14–August 21, MW 6:00–9:00pm, HC M/1/614, Staff, Sched No 739859, 3 Credits

MGT 220
Ethics and Management

Examines in the first third of the course the kinds of ethical principles (e.g., justice, equality, rights and obligations, and the public interest) generally offered in justification of ethical judgments. The last two-thirds of the course is devoted to supervised independent study in which the student chooses an ethical problem in management and attempts to analyze and resolve it.

Day
June 2–July 10, MW 10:00am–1:00pm, HC W/2/127, Staff, Sched No 740056, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC W/2/126, Staff, Sched No 740256, 3 Credits

Note: any student wishing to take MGT 301, MGT 302, MGT 330, or MGT 490, 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; and 3) must have completed all course prerequisites with a C– or better.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services before the student may enroll in MGT 301, MGT 302, MGT 330 or MGT 490. Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MGT 301
Theory and Practice of Management
(See note above.)

Introduces the process of planning, organizing, directing, and controlling activities as they relate to the effective use and development of people in formal organizations. Students learn analytical tools for recognizing, diagnosing, and acting on managerial problems related to organizations, their objectives, and the development of human resources. The course emphasizes organizational analysis and design and the analysis of effects of organizational structure on human performance.

Day
June 2–July 10, TuTh 8:15–11:15am, HC M/1/418, Staff, Sched No 740456, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC W/2/125, Staff, Sched No 740656, 3 Credits

MGT 302
Organizational Behavior
(See note above.)

Examines theories and research about human behavior in organizations. Through experiential learning, students analyze individual behavior, interpersonal relations, and group dynamics, all from a managerial perspective. The course also considers the options open to management in structuring human performance as well as the value implications of personnel decisions.

Prerequisite: MGT 301.
Day
July 14– August 21, TuTh 8:15–11:15am, HC M/1/148, Staff, Sched No 740856, 3 Credits
Evening
July 14–August 21, MW 6:00–9:00pm, HC W/2/126, Staff, Sched No 741050, 3 Credits

MGT 330
Business Environments and Public Policy
(See note above.)

Examines the interaction of business and government in the contemporary public policy process in the United States. The course helps students become familiar with the private sector's effect on the public sector as well as the public's effect on the private. The course examines how government promotes, regulates, and competes with private enterprise.

Day
June 2–July 10, MW 8:15–11:30am, HC M/1/418, Staff, Sched No 741250, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC W/2/127, Staff, Sched No 741450, 3 Credits

MGT 490
Business Policy
(See note above.)

Focuses on the organization as a whole, from a perspective that takes into account both the role of top management and the future of the organization. The course is designed to be the capstone of the student's academic career. It develops an approach for identifying the ultimate aim of the organization, exploring its external environment for opportunities and risks, and relating these to internal strengths and weaknesses. The course is required of concentrators in accounting, management of human resources, management information systems, marketing, operations management, and private financial management.

Prerequisite: Senior standing.
Day
June 2–July 10, TuTh 10:00am–1:00pm, HC W/2/127, Staff, Sched No 741650, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC, W/2/126, Staff, Sched No 741850, 3 Credits
July 14–August 21, TuTh 6:00–9:00pm, HC W/2/126 Sched No 741905, 3 Credits

Management Science

MS 110
Introduction to Computers in Management

Introduces students to computers and their use in information processing and decision making. Among the topics the course considers are evolution of information processing, data representation, program flowcharting, basic programming, and simple applications.

Note: The fee for this three-credit course is $190.00.
Day
June 2–July 10, MW 11:45am–3:00pm, HC W/1/057, Ms Atac, Lab Fee: $10.00, Sched No 743303, 3 Credits
Evening
June 2–July 10, MW 6:00–9:15pm, HC W/1/057, Ms Atac, Lab Fee: $10.00, Sched No 743503, 3 Credits

MS 210
Managerial Statistics

Provides the student with a basic knowledge of ways to reduce masses of data into a meaningful form for decision making. The course examines collection and presentation of data, frequency distributions, measures of central tendency and dispersion, probability and probability distributions.

Note: The fee for this three-credit course is $190.00.
Prerequisite: Math D110 (may be taken concurrently).
Day
June 2–July 10, MW 11:45am–3:00pm, HC W/1/064, Ms Ker, Sched No 743703, 3 Credits
July 14–August 21, TuTh 11:45am–3:00pm, HC W/1/057, Ms Schiavonni, Sched No 743753, 3 Credits
Evening
June 2–July 10, MW 6:00–9:15pm, HC W/1/061, Ms Ker, Sched No 743953, 3 credits
July 14–August 21, TuTh 6:00–9:15pm, HC W/1/057, Ms Schiavonni, Sched No 744002, 3 Credits

MS 211
Quantitative Analysis

Provides the student with additional (beyond MS 210) knowledge of statistical analysis approaches used in decision making. Topics include: decision theory, bayesian statistical inference, non-parametric regression, and correlation analysis.

Note: The fee for this three-credit course is $190.00.
Prerequisite: MS 210.
Day
June 2–July 10, TuTh 11:45am–3:00pm, HC W/1/057 Mr Papageorgiou, Sched No 744202, 3 Credits
July 14–August 21, MW 11:45am–3:00pm, HC W/1/057, Mr Gianoukos, Sched No 744252, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:15pm, HC W/1/057, Mr Papageorgiou, Sched No 744452, 3 Credits
July 14–August 21, MW 6:00–9:15pm, HC W/1/061, Mr Gianoukos, Sched No 744507, 3 Credits

Note: any student wishing to take MS 301, 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; and 3) must have completed all course prerequisites with a C– or better.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services before the student may enroll in MS 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MS 301
Operations Management
(See note above.)

Introduces the student to the design and control problems of every system that transforms inputs into outputs, with major emphasis given to the problems associated with the production function of a manufacturing organization. The course also covers operations research approaches used to solve the associated problems.

Note: The fee for this three-credit course is $190.00.
Prerequisite: MS 210.
Day
June 2–July 10, MW 8:15–11:30am, HC W/1/053, Mr Bekiroglou, Sched No 744707, 3 Credits
July 14–August 21, TuTh 11:45am–3:00pm, HC W/1/064, Mr Shimshak, Sched No 744757, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:15pm, HC W/2/127, Mr Shimshak, Sched No 745006, 3 Credits

MS 480
Management Sciences Internship

Provides students with opportunities for full- or part-time work experience in a management sciences setting. On-site supervisors and faculty sponsors provide guidance and supervision for each intern.

Prerequisite: Enrollment in the CM degree program as a Management Sciences Department Concentrator.
By Arrgt, Staff, Sched No 745206, 3 Credits

Marketing

Note: any student wishing to take MKT 301, 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; and 3) must have completed all course prerequisites with a C– or better.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services before the student may enroll in MKT 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MKT 301
Principles of Marketing
(See note above.)

Develops students' understanding of marketing principles underlying the selection and assessment of markets and the development and delivery of products and services.

Prerequisites: MS 110, Econ E101 and E102.
Day
June 2–July 10, MW 10:00am–1:15pm, HC W/1/056, Mr Atac, Sched No 742709, 3 Credits

Mathematics

Note: students in any mathematics course may be required to attend one additional 50-minute discussion section per week if the enrollment in that course exceeds normal capacity.

Math Diagnosis

It is greatly to the advantage of the student to be placed in the proper course. *Students are advised to consult course descriptions for prerequisites and equivalents before registering for math courses.* To ensure placement in the right course, each student will be required to take a Math Diagnostic Test before being admitted to a course that requires this test as indicated in its description. This step will prevent loss of time in switching courses or obtaining refunds after classes have begun.

The test will be given during the following periods for students enrolling in summer math courses:

May 21, 11:00am–1:00pm, HC W/2/203
May 21, 5:00–8:00pm, HC W/2/203
May 22, 11:00am–1:00pm, HC W/2/203
May 22, 5:00–8:00pm, HC W/2/203
July 1, 11:00am–1:00pm, HC W/1/046
July 1, 5:00–8:00pm, HC W/1/046

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Math D110
Basic Algebra
For students with weak math background who want to develop skills for further math or science courses. Covers basic high school math. Topics include multiplying and factoring polynomials, linear equations and straight lines, fractional exponents and radicals, ratios of polynomials, quadratics, word problems. Generally limited to students with less than 3 years of high school math preparation.
Note: No student receives graduation credits for Math D110 if it is taken after successful completion of Math D124 or D130 or a higher math course.
Prerequisite: Math Diagnostic Test only.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/1/063, Staff, Sched No 734859, 3 Credits
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/063, Staff, Sched No 734904, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC W/1/063, Staff, Sched No 735003, 3 Credits
Evening
June 2–July 10, MTuWTh 7:45–9:15pm, DC 624, Staff, Sched No 734954, 3 Credits
July 14–August 21, MTuWTh 7:45–9:15pm, DC 624, Staff, Sched No 735053, 3 Credits

Math D125
Introductory Statistics
For non-science and non-mathematics majors only. Topics include: introductory statistics, covering descriptive statistics; introductory probability sufficient to enable development of inferential statistics; and inferential statistics.
Note: No student will receive graduation credits for Math D125 if it is taken after successful completion of Math 345 or 645.
Not open to mathematics majors.
Prerequisite: Math Diagnostic Test or Math D110.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/057, Staff, Sched No 735253, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC W/1/064, Staff, Sched No 735308, 3 Credits

Math D130
Precalculus
Preparation for first year calculus. Covers symmetry, graphs, functions, lines, parabolas and max-min problems, exponential and logarithm functions. exponential growth, semilog graphing, and the trigonometric functions and their inverses. Qualified students should enter Math D140 *without* taking this course.
Note: No student receives graduation credits for Math D130 if it is taken after successful completion of Math D140 or a higher math course. Students who have successfully completed Math D130 may not subsequently take Math D124 for credit. Students may take Math D130 after D124 only with explicit permission of the Math Department.
Prerequisite: Math Diagnostic Test only. Successful completion of Math D110 is not enough.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/1/057, Staff, Sched No 735508, 3 Credits
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/064, Staff, Sched No 735558, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC W/1/063, Staff, Sched No 735653, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC W/2/198, Staff, Sched No 735708, 3 Credits
Evening
June 2–July 10, MTuWTh 6:00–7:30pm, HC M/1/428, Staff, Sched No 735603, 3 Credits
July 14–August 21 MTuWTh 6:00–7:30pm, DC 624., Staff, Sched No 735758, 3 Credits

Math D140
Calculus I
The first in the sequence of calculus courses for science and math majors. Starts with the basic concepts of functions and limits. Topics covered include derivatives and their applications, definite and indefinite integrals with applications to geometric and physical problems, and discussion of algebraic and transcendental functions.
Note: A student who has received credit for Math D135 may not take Math D140 for credit without the explicit permission of the department and then only for two credits.
Prerequisite: Math Diagnostic Exam or Math D130.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 10, MTuWTh 8:00–9:45am, HC W/2/198, Staff, Sched No 736607, 4 Credits
June 2–July 10, MTuWTh 10:00–11:45am, HC W/2/198, Staff, Sched No 736657, 4 Credits
July 14–August 21, MTuWTh 8:00–9:45am, HC W/2/198, Staff, Sched No 736752, 4 Credits
July 14–August 21, MTuWTh 10:00–11:45am, HC W/1/064, Staff, Sched No 736807, 4 Credits
Evening
June 2–July 10, MTuWTh 7:45–9:30pm, HC W/1/063, Staff, Sched No 736702, 4 Credits
July 14–August 21, MTuWTh 5:45–7:30pm, HC W/1/063, Staff, Sched No 736857, 4 Credits

Math D141
Calculus II
Continuation of Math D140. Topics include transcendental functions. techniques of integration, applications of the integral, improper integrals, L'Hospital's rule, sequences, and series.
Prerequisite: Math D140 or equivalent.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 10, MTuWTh 8:00–9:45am, HC W/1/058, Staff, Sched No 737051, 4 Credits
June 2–July 10, MTuWTh 10:00–11:45am, HC W/1/062, Staff, Sched No 737106, 4 Credits
July 14–August 21, MTuWTh 8:00–9:45am, HC W/1/055, Staff, Sched No 737201, 4 Credits
July 14–August 21, MTuWTh 10:00–11:45am, HC W/1/055, Staff, Sched No 737251, 4 Credits
Evening
June 2–July 10, MTuWTh 5:45–7:30pm, HC W/1/063, Staff, Sched No 737156, 4 Credits
July 14–August 21, MTuWTh 7:45–9:30pm, HC W/1/063, Staff, Sched No 737306, 4 Credits

Math 240
Calculus III
Calculus of functions of several variables. Topics include: partial derivatives, transformations, derivative as a matrix, chain rule, directional derivatives, gradients, second derivatives; and multiple integrals, substitution rule, and Jacobians.
Prerequisite: Math D141.
Corequisite: Math 260 (May also be taken as prerequisite).
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/054, Staff, Sched No 737706, 3 Credits

Math 260
Linear Algebra I
Elementary theory of abstract vector spaces. Topics include: linear independence, bases, dimension, linear maps and matrices, determinants, orthogonality, eigenvalues and eigenvectors.
Prerequisite: Math D141.
Day
June 2–July 10 MTuWTh 8:15–9:45am, HC W/1/054, Staff, Sched No 738100, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC W/1/057, Staff, Sched No 738150, 3 Credits

Math 310
Applied Ordinary Differential Equations
Comprehensive study of ordinary differential equations. Series solutions to differential equations, Bessel functions, characteristic functions, and Fourier series.
Prerequisites: Math D141 and either Math 260 or Phys D114.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/1/055, Staff, Sched No 738550, 3 Credits

Math 330
Applied Discrete Mathematics
An introduction to the algebraic structures used in computing: sets, mathematical induction, ordered sets, Boolean algebras, calculus, graphs, trees, finite fields, error-correcting codes, and automata theory. Proofs of theorems about these structures are constructive (algorithmic). Applications to computing are discussed.
Prerequisite: Math D138, D141, and 260; or permission of instructor.
Day
June 2–July 10, MTuWTh 8:15–9:45am , HC W/1/055, Staff, Sched No 738750, 3 Credits

Math 470
Mathematical Logic
Syntax and semantics of propositional and first order predicate logics. Axiomatic theories and completeness. Brief discussion of incompleteness results.
Prerequisite: Math 260 or Math 330 or 360 are recommended though not required.
Evening
July 14–Aug 21, MTuTh 6:00–7:30pm, HC W/1/053, Staff, Sched No 738950, 3 Credits

Math 479
Readings in Mathematics and Computer Science
Advanced level study of various topics according to individual interests. Open only to those students who have proven capabilities in mathematics or computer science.
Prerequisite: Permission of department.
By Arrgt, Staff, Sched No 739037, 3 Credits

Computer Science Courses

Math D137
Introduction to Computing
An introduction to computer programming—the concepts involved in use of a higher level language and the program development process. The goal of this course is proficiency in the design and implementation of programs of significant size and complexity. This course is quite demanding because of the length of the programming exercises assigned. This is the first course in the computer science sequence. Math D137 is taught using one of two programming languages, Pascal and FORTRAN-77. Math D137P (Pascal) is appropriate for prospective majors. Math D137F (FORTRAN) is appropriate for some pre-engineering students, who should consult the Engineering program for course selection advice.
Note: Students who have taken Math D137 in Pascal will not be granted credit for Math D137 in Fortran.
Note: The fee for this four-credit course is $240.00.
Prerequisite: Math Diagnostic Test.
Core Area: Mathematics and Computer Languages.
Pascal
Day
June 2–July 31, MTuTh 10:00–11:30am, HC W/1/061, Staff, Lab Fee: $10.00, Sched No 735958, 4 Credits
Evening
June 2–July 31, MTuTh 7:45–9:15pm, HC W/2/198, Staff, Lab Fee: $10.00, Sched No 736007, 4 Credits
Fortran
Evening
June 2–July 31, MTuTh 6:00–7:30pm, HC W/2/198, Staff, Lab Fee: $10.00, Sched No 736207, 4 Credits

Math D138
Intermediate Computing
A continuation of Math D137P. Topics include modularity, text files, input parsing, dynamic data structures; lists, pointers, queues, stacks, recursive algorithms; recursive data structures; trees, searching and sorting; software engineering methodology; optional topics as time permits.
Note: The fee for this four-credit course is $240.00.
Prerequisite: Math D137P or permission of instructor.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 31, MTuTh 8:15–9:45am, HC W/1/058, Staff, Lab Fee: $10.00, Sched No 736407, 4 Credits

Math 250
Numerical Computing
An introduction to the classical techniques of numerical analysis: root finding, approximation and interpolation and integration. A thorough discussion of problems of error and of floating and fixed point computation. Students are expected to solve a number of numerical problems using the computer. (Primarily for applications of interest to students in applied math, engineering, physics, chemistry, biology, psychology and economics.)
Note: The fee for this three-credit course is $240.00.
Prerequisites: Math D137, D141.
Day
June 2–July 31, MTuTh 10:00–11:30am, HC W/1/060, Staff, Lab Fee: $10.00, Sched No 737906, 3 Credits

Interested?
Take a look:
American Studies C205, "The Fifties," p. 5

Math 267
Machine and Assembly Language Programming
A detailed description of the structure and machine language of digital computers and of the hardware components of computing systems. The use of assembly language and its relation to higher level programs and data structures are explored. Students are expected to complete a number of programs exemplifying the techniques of the course.
Note: The fee for this three-credit course is $240.00.
Prerequisite: Math D138 or permission of instructor.
Day
June 2–July 31, MTuTh 8:15–9:45am, HC W/1/061, Staff, Lab Fee: $20.00, Sched No 738350, 3 Credits

Music

Music C110
Listening Experience
A study of the creative processes which shape the musical artwork, emphasizing a broad range of intensive, analytical listening experiences.
Core Area: The Arts.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC W/1/005, Mr Plotkin, Sched No 745656, 3 Credits
Evening
June 2–July 10, MTuWTh 6:00–9:00pm, DC 505, Mr Zebrowski, Sched No 745606, 3 Credits

Music C111
Introduction to Music
Basic music materials, principles of design, and the cultural significance of representative works in historical sequence. Designed primarily for non-music majors.
Core Area: The Arts.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC W/1/005, Mr Patterson, Sched No 745856, 3 Credits
Evening
July 14–August 21, MTuWTh 6:00–9:00pm, HC W/1/005, Mr Walters, Sched No 745901, 3 Credits

Human E250
American Popular Song
A study of the various elements and styles of lyrics and music in American popular songs, focusing on ballads from Irving Berlin to Rodgers and Hart to Stephen Sondheim, on rhythm and blues, and beyond.
Core Area: The Arts
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC W/1/005, Staff, Sched No 730758, 3 Credits

Nursing

Nurs 201
Pathophysiology
The course deals with alterations in the normal physiology of body structures. Discussion of normal state is followed by the description of physiological changes resulting in the symptoms of disease. Topics include the various body systems, such as cardiovascular, renal, respiratory, and endocrine.
Prerequisites: Biol D111, 207.
Corequisite: Biol 208.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC W/2/200, Mr Segelman, Sched No 746305, 3 Credits

Philosophy

Phil E100
Introduction to Philosophy
An introductory examination of the problems and scope of philosophy.
Core Area: Philosophical and Humanistic Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/1/428, Mr Sassower, Sched No 751453, 3 Credits
July 14–August 21, MTuWTh 8:15–10:00am, HC M/1/428, Mr Lott, Sched No 751558, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 608, Mr Serequeberhan, Sched No 751508, 3 Credits
July 14–August 21, MW 6:00–9:00pm, DC 521, Mr Lidz, Sched No 751603, 3 Credits

Phil C108
Moral and Social Problems
Important moral and social issues of current concern are examined and debated. The course covers several problems each semester from a list including criminal punishment, war, abortion, racism, violence, the death penalty, private property, and sexism.
Core Area: Philosophical and Humanistic Studies.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/1/428, Mr Sassower, Sched No 750859, 3 Credits
July 14–August 21, MTuWTh 11:45am–1:15pm, HC M/1/428, Mr Flesche, Sched No 750954, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, DC 519, Ms Nelson, Sched No 750904, 3 Credits
July 14–August 21, TuTh 6:00–9:00pm, DC 519, Mr Flesche, Sched No 751003, 3 Credits

Phil D120
Introduction to Logic
The forms of valid reasoning, deductive and inductive, and their role in reflective thinking; formal logic, truth functions, quantifiers, proofs of formal adequacy, the classical problem and new riddle of induction, reasoning with probabilities, and elements of game theory.
Core Area: Mathematics and Computer Languages.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/205, Mr Rosenfeld, Sched No 751203, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC M/1/428, Mr Rosenfeld, Sched No 751253, 3 Credits

Phil E222
Moral Issues in Medicine
Concepts of health, illness, healing, under different paradigms of medicine. Is medicine an art or a science? Impact of medical technology on human life, death, what is considered "natural," with attention to issues in human reproduction (e.g., in vitro fertilization, conception, abortion). Questions of authority, accountability in the doctor-patient relationship, patient advocacy, self-help, right to health care or to refuse treatment. Social and political questions of health care organization.
Core Area: Philosophical and Humanistic Studies.
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC M/2/205, Mr Silver, Sched No 751803, 3 Credits

Physical Education

PE 111
Racquetball & Squash
This course is open both to novices and to intermediate players who wish to improve their game. The course will introduce the basic rules and techniques of both sports.
Note: the fee for this one-credit course is $95.00.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, Mr Saitta, Sched No 749452, 1 Credit

PE 180
Tennis I
This course is open both to novices and to intermediate players who wish to improve their game. The course will introduce the basic rules and techniques of tennis.
Note: the fee for this one-credit course is $95.00.
Day
June 2–July 10, MTuWTh 10:00–11:30am, Mr Thomas, Sched No 749652, 1 Credit

PE 321
Physiology of Exercise
Students in this course are introduced to the physiology of exercise through a review of basic anatomy and physiology considered in relation to physical activity. Students develop a scientific basis for understanding the physiological responses of the human organism to exercise, and consider practical applications of this understanding
Prerequisites: Biol 202 and 203.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC W/1/032, Mr Thomas, Sched No 749852, 3 Credits

PE 470A
Lifetime Fitness
This course will help individual students establish, evaluate, and maintain an appropriate and desirable level of fitness. The focus will be on individualized instruction that will also take into consideration the needs of the disabled, the elderly, the overweight, and pregnant women. The course includes both lecture and laboratory components.
Note: a release from a physician is required for students who are over 35 years old or disabled.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC W/1/020, Ms Pappalardo, Sched No 750059, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, HC W/1/019, Mr Thomas, Sched No 750065, 3 Credits

PE Hlt 102
Health Science/Fitness
This course stresses scientific information and the development of health practices that contribute to effective living and personal assessment of fitness.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/032, Mr Saitta, Sched No 750459, 3 Credits

PE Ath300
Boston Sports Medicine Institute
Assessment, evaluation, and diagnosis of common sport and dance injuries, as well as treatment protocol. Lectures in anatomy and practical demonstrations of injury assessment and diagnosis. Three afternoon laboratories cover common sport tapings and wrappings. Leading sports medicine physicians, trainers, and physical therapists will lecture on surgical techniques, modalities in sports medicine, and the prevention and management of injuries.
Note: The fee for this two-credit course is $323.00.
Day
June 23–June 25, MTuW 9:00am–5:30pm, Harbor Campus, Mr Roncarati, Sched No 749096, 2 Credits

Physics

Phys D107
College Physics I
Non-calculus introductory physics for life-science students and others with a program requirement for a year of physics at this level. Topics include mechanics, fluids, wave motion, kinetic theory of gases, temperature and heat. Course includes lectures and discussion hours. Students who need or want laboratory work in physics should enroll concurrently in Phys 181.
Prerequisite: Math D130 or permission of instructor.
Core Area: Natural Sciences.
Day
June 2–July 10, MTuWTh 8:30–10:00am, HC S/1/006
Disc sections: 10:05–10:55am or 11:00–11:50am on MW or TTh. Assignments will be made at the first class meeting. For information, call 929-7760. Sched No 752207, 3 Credits

Phys D108
College Physics II
A continuation of Phys D107. Topics include thermodynamics, electricity and magnetism; optics; and a preview of modern physics. Course includes lecture and discussion hours. Students who need or want laboratory work in physics should enroll concurrently in Phys 182.
Prerequisite: Phys D107 or permission of instructor.
Core Area: Natural Sciences.
Day
July 14–August 21, MTuWTh 8:30–10:00am, HC S/1/006
Disc sections: 10:05–10:55am or 11:00–11:50am on MW or TTh. Assignments will be made at the first class meeting. For information, call 929-7760. Sched No 752607, 3 Credits

Phys D113
Fundamentals of Physics I
The first semester of calculus-level introductory physics. Topics include mechanics, hydrodynamics, waves, kinetic theory, and heat. Course includes lecture and discussion hours. Students who need or want laboratory work in physics should enroll concurrently in Phys 181.
Corequisite: Math D140; corequisite for physics majors: Phys 181.
Core Area: Natural Sciences.
Day
June 2–July 10, MTuWTh 8:30–10:00am, HC W/1/064
Disc sections: 10:10–11:50am on MW or TTh. Assignments will be made at the first class meeting. For information, call 929-7760. Sched No 752952, 4 Credits
Evening
June 2–July 10, MTuWTh 5:30–7:00pm, HC W/1/064
Disc sections: 7:10–8:50pm, MW, W/1/064, Sched No 753001, 4 Credits

Phys D114
Fundamentals of Physics II
The second semester of calculus-level introductory physics. Topics include thermodynamics, electricity and magnetism, geometrical and wave optics. Course includes lecture and discussion hours. Students who need or want laboratory work in physics should enroll concurrently in Phys 182.
Corequisite: Math D141; corequisite for physics majors: Phys 182.
Prerequisite: Phys D113 or permission of instructor.
Core Area: Natural Sciences.
Day
July 14–August 21, MTuWTh 8:30–10:00am, HC W/1/064
Disc sections: 10:10–11:50am on MW or TTh. Assignments will be made at the first class meeting. For information, call 929-7760. Sched No 753401, 4 Credits
Evening
July 14–August 21, MTuWTh 5:30–7:00pm, HC W/1/064
Disc sections: 7:10–8:50pm, MW, W/1/064, Sched No 753417, 4 Credits

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Fall and Spring at

Some Highlights

UMass/Boston's summer program draws upon exceptional resources—resources used and enjoyed by more than 12,000 students during our fall and spring semesters. On these two pages are brief descriptions of several of the many programs we offer during the academic year. On the following page, a complete list of our academic programs appears, together with information about ways to learn more about the University. We encourage all interested students to call, write, or pay us a visit, and to consider attending UMass/Boston this fall.

Internships in Political Science

Political science majors can earn academic credit—and valuable practical experience—by working as interns in politics and public administration. Our Political Science Department places student interns in the whole range of local, state, and national government agencies and political organizations. Similar internships are open to students in many other departments in our College of Arts and Sciences and throughout the University. We also offer a thriving cooperative education program for students interested in periods of full-time employment directly related to their studies.

Computer Science

Computer science is one of many fields in which UMass/Boston offers career-oriented education that focuses on the applications of knowledge while remaining firmly within a rigorous academic framework. Students interested in computer science can choose major or non-major programs, working with state-of-the-art equipment and an experienced and knowledgeable faculty. These programs are also open to non-degree-seeking (special) students. At the graduate level, students can earn an MS in computer science.

Graduate Study in More Than Twenty-five Fields

The faculty members teaching in our graduate programs are both academically demanding and personally concerned. Most graduate courses are scheduled in the evening or late afternoon, and most graduate degrees can be earned through part-time study. Biotechnology, American civilization, applied marine ecology, applied sociology, critical and creative thinking—we offer these and more than twenty additional programs and tracks. Most of our graduate students seek degrees or certificates, but others obtain the permission of program directors and take courses as non-degree-seeking students simply to satisfy their curiosity.

Late-Afternoon and Evening Classes

UMass/Boston's day begins at 8:00 in the morning and extends until 10:00 at night. Through our Extended Day Program we schedule hundreds of course sections on-campus during the late afternoon and evening hours. Extended day courses, which are taught by regular faculty, are in every way an integral part of our academic program. Many UMass/Boston students take both daytime and extended day classes; others attend only during the extended day. It is possible to complete the requirements of more than twenty undergraduate and graduate programs through extended day study alone. Evening courses are also offered off-campus, through our Division of Continuing Education.

Research in Environmental Sciences

As a public university, UMass/Boston is charged with contributing to the quality of life in Massachusetts through high caliber research as well as dedicated teaching. Our PhD program in environmental sciences reflects this dual commitment. Environmental sciences faculty and students are actively investigating—and working to improve—conditions in Boston Harbor. Among the subjects under study are scientific uncertainty and harbor management, interaction between tin and aquatic microorganisms, isotopic and molecular methods for tracing anthropogenic wastes in the marine environment, and the physical oceanography of the harbor.

Majoring in English

English majors at UMass/Boston can explore every corner of the rich and various realm of literature in English, from the poetry of Chaucer to contemporary American fiction. They can also develop their skills in every kind of practical and creative writing. Some arrange to take courses offered by the English Department's graduate programs in literature, composition, bilingual education, and English as a second language. As do all UMass/Boston students, English majors benefit from the scholarly distinction, range of experience, and dedication to teaching of an exceptional faculty.

Sports Medicine

Many students in our Physical Education Program specialize in the fast-growing field of sports medicine and exercise science. The program equips these students to prevent and treat athletic injuries, and to guide rehabilitation after injuries, in all educational, recreational, and commercial environments. Other students specialize in sport and fitness administration, or in any of six additional fields representing the therapeutic, recreational, dance, and educational areas of physical education and fitness. All these specializations lead to the BS degree.

UMass/Boston

Translation and Language Study

Many students prepare for our intensive summer certificate program in Spanish translation by taking courses in Spanish language and literature during the academic year. We also offer coursework focusing on Spanish as it is used in the business world, as well as coursework in commercial French, German, and Russian. UMass/Boston students can undertake advanced study in any of eleven languages, and can follow major programs in seven of these languages.

Nursing

At our School of Nursing, students pursue a challenging and exciting curriculum, accredited by the National League for Nursing, that leads to the BS degree. The program is firmly based in the liberal arts and the social and biological sciences; it provides intensive study of the principles of nursing combined with clinical experience in Boston-area teaching hospitals and community health agencies. The program is rigorous but flexible—it is structured both for students who are new to nursing and for registered nurses. Students can complete some program requirements while attending part-time and can also receive some transfer credit for work completed at other institutions.

Learning to Teach

Students completing programs offered by UMass/Boston's Institute for Learning and Teaching become eligible for teacher certification in Massachusetts and other states in early childhood, elementary, and secondary education. The Institute provides a thorough grounding in educational theory, abundant experience in the field, supervised student teaching, and access to the academic resources of the University's College of Arts and Sciences. The Institute also conducts graduate programs in counselor training, education, educational administration, instructional media, school psychology, and special education.

Management

Students in our College of Management can pursue every aspect of management from marketing to the management applications of advanced computer technology. The College's curriculum continues to diversify and grow, equipping students for careers in business and industry, government and education, public interest agencies, and private service organizations.

Concentrations available to undergraduates include accounting, decision sciences, general management, human resources management, management information systems, manufacturing operations management, marketing, private financial management, public management, and service operations management. The College also offers a challenging graduate curriculum leading to the MBA.

Competency-Based Education

At UMass/Boston's College of Public and Community Service (CPCS), education is based on demonstrating competence rather than on attaining a grade. CPCS recognizes that learning takes place both in and beyond the classroom, and offers students varied opportunities to meet academic requirements by showing that they can put knowledge and principles to practical use.

Most CPCS students are urban adults whose experiences have already given them essential preparation for careers in public and community service. CPCS undergraduates focus on such areas as community planning, criminal justice and public safety, human services, legal services, and gerontology. Classes, fieldwork, and prior learning all contribute to progress toward the bachelor's degree. The College also offers a graduate program leading to the MS in Human Services.

Off-Campus and Saturday Courses

Each fall and spring semester, our Division of Continuing Education offers credit courses during evening hours at convenient locations in Boston-area communities including Braintree, Hingham, Lexington, Medford, and West Roxbury, as well as Saturday courses at our Downtown Center in Park Square. These courses are open to matriculated (degree-seeking) students, who are free to combine on- and off-campus study as they pursue their degrees. The courses are also open to non-matriculated (special) students. Some of these students enroll to sample university-level study before applying for formal admission to UMass/Boston, while others enroll simply for personal or professional growth. Non-degree-seeking students may be particularly interested in the Division's new Career Enhancement Certificate Program, a sequence of courses designed to increase effectiveness at work and expand career opportunities.

The Honors Program

Through the Honors Program of our College of Arts and Sciences, highly committed freshmen and sophomores participate in a challenging series of courses, seminars, and tutorials that encourage excellence in writing, verbal exchange, mathematical thinking, and the use of foreign languages, and provide sound preparation for advanced study. Eligibility for the program depends upon evidence of intellectual achievement. Honors work, usually involving an extended research project, can also be done by eligible majors in most departments; and advanced students can take graduate-level courses and work as research assistants to faculty members.

Law and Justice

Among the University's innovative approaches to education are such interdisciplinary programs of study as the Program in Law and Justice, which gives students an understanding of the law and legal institutions through classes team-taught by faculty from different departments, courses conducted by an attorney-in-residence, and independent work on a major paper. Other interdisciplinary programs include those in East Asian studies, health care studies, international relations, women's studies, and the study of religion.

8 Ways to Learn More About UMass/Boston

1 Come to an information session at our Harbor Campus. Sessions for prospective undergraduates are held in the Admissions Office on Mondays at 5:30pm, Thursdays at 9:30am, and Fridays at 2:00pm. To reach the Harbor Campus by car, take the Southeast Expressway to exit 14 or exit 15 and follow the signs; on the "T," take a Red Line Ashmont Train to JFK/UMass (Columbia) Station and our free shuttlebus the rest of the way.

2 Attend a "Returning Student Seminar"—an informal information and discussion session for people who are thinking about college after having been out of school for some time. Sessions take place every Wednesday at 12:00noon in Room 907 of our Downtown Center (at Arlington and Stuart Streets in Park Square).

3 Attend a CPCS Admissions Seminar. Seminars particularly for people who are interested in our College of Public and Community Service take place Tuesdays at 9:00am and 6:00pm at the Downtown Center (the home of CPCS), in Room 907.

3 Take a guided tour of the Harbor Campus. Tours leave from the Admissions Office every Monday through Friday at 10:30am and 2:30pm. Special arrangements can be made for groups (call 929-8600).

5 For information about off-campus and Saturday courses, and other activities sponsored by our Division of Continuing Education, call 617 956-1000.

6 Drop in at our Enrollment Services Office on the ground floor of the Downtown Center. The office is open Mondays through Thursdays, 9:00am–7:00pm.

7 Call our Office of New Student Information with any questions you may have about attending UMass/Boston. The number to use is 617 929-8600.

8 Send us this coupon. We'll be glad to respond.

Name

Number and Street

City, State, Zip

Month and Day of Birth (for coding only)

Program of Particular Interest

Return to:
Office of New Student Information
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

Academic Programs at UMass/Boston

College of Arts and Sciences

Major Degree Programs
Anthropology*
Anthropology and History
Art
Biology*
Biology and Medical Technology
Black Studies
Chemistry
Classical Studies
Computer Science
Earth Science*
Economics*
Engineering Physics
English*
French*
Geography*
German*
Greek
Greek and Latin
History*
Italian*
Latin
Mathematics (Pure or Applied)
Music*
Philosophy*
Philosophy and Psychology
Physics
Political Science*
Psychology*
Russian*
Sociology*
Spanish*
Theatre Arts*

* Students in the College may minor in these disciplines, as well as in management.

Programs of Study
American Studies
Biobehavioral Studies
Biology of Human Populations*
Black Studies
Communication*
Computer Science*
Creative Writing*
East Asian Studies
Engineering
Health Care Studies
International Relations
Irish Studies
Latin American Studies
Law and Justice*
Linguistics
Marxist Studies*
New England Historical Archaeology*
New England Prehistoric Archaeology*
Psychometrics
Public Policy
Study of Religion
Technical Writing*
Translation (Spanish)*
Urban Studies*
Women's Studies*

* Open to non-degree-seeking students.

Special Course Groupings
Armenian Language and Literature
Chinese Language and Literature
Humanities
Interdisciplinary Studies
Japanese Language and Literature
Portuguese Language and Literature

College of Management

Concentrations
Accounting
Decision Sciences
General Management
Human Resources Management
Management Information Systems
Manufacturing Operations Management
Marketing
Private Financial Management
Public Management
Service Operations Management

College of Public and Community Service

Career Certificate Programs
Adult Training and Development
Community Energy Planning*
Community Planning
Community Planning and Management
Community Service Management
Criminal Justice and Public Safety
Gerontology*
Human Services
Human Services Advocacy
Labor Studies*
Law Work*
Legal Services
Management of Human Services

* Open to non-degree-seeking students.

Institute for Learning and Teaching

Major Programs
Early Childhood Education
Elementary Education

Certification Program
Secondary Education

School of Nursing

Major Programs
Nursing
Nursing for RN's

Program in Physical Education and Fitness

Areas of Specialization
Sports Medicine/Exercise Science
Sport and Fitness Administration
Adapted Physical Education/Therapeutic Recreation
Recreation/Leisure Studies
Dance (Performance or Teaching)
Teaching Physical Education (Elementary or Secondary)

Graduate Studies

Programs and Tracks of Study
American Civilization (MA)
Applied Physics (MS)
Applied Sociology (MA)
Bilingual Education (MA)
Biology (MS)
Biology/Applied Marine Ecology (MS)
Biotechnology and Biomedical Science (MS)
Business Administration (MBA)
Chemistry (MS)
Computer Science (MS)
Counselor Training (MEd, CAGS)
Critical and Creative Thinking (MA)
Education (Elementary and Secondary) (MEd)
Educational Administration (MEd, CAGS)
English (MA)
English/Composition (MA)
English as a Second Language (MA)
Environmental Sciences (PhD)
History (MA)
History/Archival Methods (MA)
History/Historical Archaeology (MA)
Instructional Media (MEd)
Human Services (MS)
Nursing (MSN)*
Public Affairs (MS)
School Psychology (MEd, CAGS)
Special Education (MEd)

* Final approval pending.

Phys 181
Physics Laboratory I
Exploration of basic physical phenomena through laboratory work. Experiments in kinematics, mechanics, and hydrostatics. This course is designed to accompany either level of introductory physics.
Corequisite: Phys D107 or D113.
Day
June 2–July 10, M, Tu, W, or Th 12:00–2:30pm. Day Lab assignments will be made the 2nd of June at 11:50am at the Physics Department Office, Rm. S/3/105. For information, call 929-7760.
Lab Fee, $7.00, Sched No 753801, 1 Credit
Evening
June 2–July 10, Tu 7:10–9:40pm, Lab Fee, $7.00, Sched No 753817, 1 Credit

Phys 182
Physics Laboratory II
Exploration of basic physical phenomena through laboratory work. Experiments in thermodynamics, electricity, magnetism, and optics. This course is designed to accompany either level of introductory physics.
Corequisite: Phys D108 or D114.
Day
July 14–August 21, M, Tu, W, or Th 12:00–2:30pm
Day Lab assignments will be made the 14th of July at 11:50am at the Physics Department Office, Rm. S/3/105. For information, call 929-7760. Lab Fee, $7.00, Sched No 754005, 1 Credit
Evening
July 14–August 21, Tu 7:10–9:40pm, Lab Fee, $7.00, Sched No 754011, 1 Credit

Political Science

PolSci E122
Government and Politics of the United States
The three main branches of the national government, federalism, political parties, interest groups, and governmental functions.
Core Area: Social and Behavioral Sciences.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/1/608, Staff, Sched No 754950, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, DC 522, Staff, Sched No 754900, 3 Credits

PolSci C123
Political Ideas of the Twentieth Century
Major political viewpoints of the present, including Conservatism, Liberalism, Marxism, and Fascism.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/1/608, Mr Kiros, Sched No 754405, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 622, Mr Kiros, Sched No 754455, 3 Credits

PolSci C220
International Relations
Through the examination of past and current international events, this course identifies basic principles and concepts which explain the behavior of nations; and it provides an introduction to the general area of social and behavioral sciences. Special attention is given to the role of war, economic relations, technology, ideologies (Marxism and Capitalism-Liberalism in particular), and various attempts like those of the United Nations to regulate international conflict. Of particular concern is the role of the Third World and its perspective, the dynamics of global interdependence, and the psychological dimension which ultimately determines how nations perceive each other.
Prerequisite: Sophomore standing.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/1/428, Mr Langley, Sched No 754655, 3 Credits
Evening
July 14–August 21, MW, 6:00–9:00pm, HC M/1/418, Staff, Sched No 754700, 3 Credits

PolSci 366
International News Interpretation
Study and analysis of the ways in which the news media define, interpret and convey what is international news. Both western and non-western news sources will be examined over a number of international news events.
Prerequisite: PolSci E122 or C123.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/1/608, Mr Kruse, Sched No 755154, 3 Credits

PolSci 372
Central American Politics
The study of the political and economic antecedents of the political situation in Central America, with emphasis on Nicaragua, Guatemala and El Salvador. Attention will also be given to Honduras, Belize, Panama, and Costa Rica. The foreign policy of the United States and of other Latin American states toward the region will be studied.
Prerequisite: PolSci E122 or C123.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/1/608, Mr Kruse, Sched No 755354, 3 Credits

PolSci 477
Politics of the Middle East
Consideration of the roots of the present political crisis in the Middle East, the domestic politics of the various states involved, and the role of oil in this political scenario.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/1/608, Staff, Sched No 755554, 3 Credits

PolSci 484
Special Problems in the Field of Politics I
Seminar in the field of practical politics generally taught by professional politicians.
Prerequisite: Permission of department.
By Arrgt, Mr Beard, Sched No 755754, 3 Credits

PolSci 488
Field Work in Politics
Carefully supervised field work, available only to a limited number of qualified students in any one semester. Written prospectus of the project, periodic conferences with a faculty advisor, and appropriate written work required.
Prerequisites: Completion of a relevant course, and permission of department.
By Arrgt, Mr Beard, Sched No 755954, 3 Credits

PolSci 590
Field Practicum in Politics
Placement in a govenment or political agency to help students integrate coursework with practical training.
Prerequisite: Permission of department.
By Arrgt, Mr Beard, Sched No 756158, 9 Credits

Interested? Take a look: English C201, "Five Major British Writers," p. 8

Psychology

Psych E101
Introductory Psychology
A general survey of selected content areas in psychology, including personality and human development, physiological psychology, learning, intelligence, heredity and environment, motivation and emotion.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/211, Staff, Sched No 756558, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/213, Staff, Sched No 756653, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC M/1/213, Staff, Sched No 756603, 3 Credits
July 14–August 21, TuTh 6:00–9:00pm, DC 507, Staff, Sched No 756708, 3 Credits

Psych 102
Introduction to Behavioral Research
An introduction to the ways of discovering, describing, and making warranted assertions about aspects of people and social life. The chief objectives are: 1) to help students develop the skills and knowledge necessary to become intelligent critics of research in the behavioral and social sciences, and 2) to give them a rudimentary understanding of the design and evaluation of scientific research. Statistical material is treated in a conceptual manner. Classroom work and course examinations concentrate equally on research design and research evaluation.
Prerequisite: Psych E101.
Evening
July 14–August 21, MW 6:00–9:00pm, HC M/2/206, Staff, Sched No 758956, 3 Credits

Psych E200
Personality
Conceptions of human nature are examined in light of various theories of personality. This course focuses on the theories of Freud, Adler, Sullivan, Erikson, Kelly, ego psychologists and other theorists presenting the behavioristic and humanistic perspectives. Among the topics to be addressed are personality structure and its development; stress and coping; neurotic styles; human motives and their measurement.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/213, Staff, Sched No 756908, 3 Credits
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/209, Staff, Sched No 757007, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 517, Staff, Sched No 756958, 3 Credits
July 14–August 21, MW 6:00–9:00pm, HC M/1/213, Staff, Sched No 757057, 3 Credits

Psych E215
Psychopathology
Etiology, dynamics, and treatment of psychopathology.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/213, Staff, Sched No 757257, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC M/2/214, Staff, Sched No 757302, 3 Credits

Psych E230
Social Psychology
A scientific attempt to understand and explain how the thought, feeling, and behavior of individuals are influenced by the actual, imagined, or implied presence of others; focuses on the drama of social interaction.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/213, Staff, Sched No 757552, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC M/2/213, Staff, Sched No 757502, 3 Credits

Psych E241
Infancy and Childhood Development
This course explores human development from infancy to middle childhood, i.e., from childbirth to ages seven or eight. Major emphasis will be placed on early perceptual, cognitive, social and affective development bearing the following questions in mind: How does the world of space and objects appear to the infant? How does he or she acquire knowledge and discover reality? How does the child experience the world of people and develop a sense of self? How does the child develop attachments to others and what role is played by the significant people in his or her life?
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/206, Staff, Sched No 757752, 3 Credits
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 517, Staff, Sched No 757807, 3 Credits

Psych E242
Adolescence
This course is designed to acquaint students with psychological characteristics of adolescent development, theoretical approaches to adolescence, and experimental studies of the causes of a variety of behaviors during adolescence. The course will also focus upon major problems and characteristics of adolescents in modern society.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/206, Staff, Sched No 758001, 3 Credits
July 14–August 21, MTuWTh 11:45am–1:15pm, HC M/2/213, Staff, Sched No 758106, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 519, Staff, Sched No 758051, 3 Credits

Psych E243
Psychology of Adult Development and Human Aging
A developmental approach to human integrity and functioning in the second half of the lifespan. Stereotyped ideas about the aging process are critically reviewed. Newer approaches to facilitating psychological well-being in the latter years of life are given special attention.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/206, Staff, Sched No 758356 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, HC M/2/206, Staff, Sched No 758306, 3 Credits

Psych E250
Learning and Memory
An introduction to current views of behavioral change, learning, and remembering. The course focuses on concepts, theoretical issues, and applications of current research.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/206, Staff, Sched No 758556, 3 Credits

Psych E260
Physiological Psychology
An examination, in depth, of selected topics in physiological psychology, including the evolution of the vertebrate nervous system, communication in the central nervous system, emotion, reward and punishment, and physiological methodology.
Prerequisite: Psych E101 or Biol D111.
Core Area: Social and Behavioral Sciences.
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC M/2/213, Staff, Sched No 758756, 3 Credits

Psych 236
The Psychology of Women
Psychological theories about women from Freud to the present are examined, with emphasis on biological and sociocultural perspectives as they have influenced the development of a psychology of women. Special attention is paid to the developmental process and to the unique issues and concerns of the female infant, child, adolescent, young adult, and older woman.
Prerequisite: Psych E101.
Recommended: Psych E230, E241.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/206, Staff, Sched No 759150, 3 Credits

Psych 333
Group Dynamics
An examination of small group behavior from a theoretical and empirical perspective. The group is viewed as a system functioning in a number of environments—physical, personal, social, and task. Each of these interrelated environments influences various aspects of group process. Thus leadership, power, conformity, status, goals, etc., are considered as interrelated processes of social interaction.
Prerequisites: Psych E101 and E230.
Evening
July 14–August 21, MW 6:00–9:00pm, HC M/2/213, Ms Sodano, Sched No 759350, 3 Credits

Psych 344
Personality Development
This course examines basic issues in the development of personality, which is distinguished from cognitive and intellectual development. Each topic covers a central developmental issue characterizing a specific age and having critical implications for overall development. Topics include temperament and personality development, separation and autonomy, competence and achievement, the development of the self and self-concept, and adult development. Emphasis is on primary source material used in research reports.
Prerequisites: Psych E101, E200, and E241 or E242; or by permission of the instructor.
Day
June 2–July 10, MTuWTh 11:45am–1:15pm, HC M/2/213, Mr Tappin, Sched No 759550, 3 Credits

Study of Religion

RelStd C104
Socrates, Jesus, Buddha
A study of three great paradigmatic figures and the different ways of life and views of reality which they represented. Attention to the social-cultural contexts in which they emerged; critical evaluation of Socrates and Jesus as sources of Western values; and exploration of why the Buddha has recently become an attractive alternative.
Core Area: Philosophical and Humanistic Studies.
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 619, Staff, Sched No 759950, 3 Credits

RelStd E109
Symbols, Myths and Ritual
An introductory and survey course in religion which takes a comparative and interdisciplinary approach. Beginning with primitive and archaic religion (including myth and ritual), it concentrates on two or three of the world-historical religions *(e.g.,* Buddhism, Judaism, Christianity—including mysticism and millenarianism) and on contemporary religious phenomena.
Core Area: Philosophical and Humanistic Studies.
Evening
July 14–August 21, MW 6:00–9:00pm, DC 522, Staff, Sched No 760357, 3 Credits

RelStd C122
Varieties of Religious Experience
A comparative study of religion, concentrating on representative mythic, mystical, prophetic, or messianic figures and movements from various religious traditions, and using psychological, sociological, and theological-philosophical approaches. Coverage of such different types of figures and movements as a Native American or an African religious movement; Gandhi or a representative Buddhist movement; Moses and the Exodus of ancient Israel; Jesus and early Christianity; and the bearing of religious traditions on some contemporary religious issues. The course is restricted to freshmen and sophomores.
Core Area: Philosophical and Humanistic Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/020, Staff, Sched No 760157, 3 Credits

Sociology

Sociol E101
Introduction to Sociology
The structure of society, cultural patterns, and group life. The individual and socialization, groups, institutions, social systems, social change.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/417, Mr Kamara, Sched No 761351, 3 Credits
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/417, Ms Adriance, Sched No 761456, 3 Credits
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 522, Staff, Sched No 761406, 3 Credits
July 14–August 21, MW 6:00–9:00pm, DC 505, Mr Clayton, Sched No 761501, 3 Credits

Sociol C140
Life Cycle
This course focuses on youth, adulthood, and old age; it examines the way in which, during different stages in life, different kinds of relationships rise and fall in importance. It considers the meaning of work at different stages and, in general, how individuals and groups cope with change.
Core Area: Social and Behavioral Sciences.
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 522, Ms Devault, Sched No 761151, 3 Credits

Sociol E160
Social Problems
A course concentrating on institutional formation and change. Specifically, it covers the definition and explanation of social problems, individual, group and governmental responses to them, implications of social policy, in-depth case studies, and discussion of contemporary social problems.
Prerequisite: Sociol E101.
Core Area: Social and Behavioral Sciences.
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 523, Mr Clayton, Sched No 761701, 3 Credits

Sociol E242
Family
A comparative and historical analysis of family systems. Emphasis on the development and future prospects of the nuclear family in middle-class industrial society.
Prerequisite: Sociol E101.
Core Area: Social and Behavioral Sciences.
Day
July 14–August 21, MTuWTh 10:00–11:30am, HC M/2/621, Ms Adriance, Sched No 761951, 3 Credits
Evening
June 2–July 10, MW 6:00–9:00pm, DC 505, Mr Kamara, Sched No 761901, 3 Credits

Sociol E281
Society and the Individual
Basic survey of the social environment of individuals.
Prerequisite: Sociol E101.
Core Area: Social and Behavioral Sciences.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC M/2/419, Mr Movahedi, Sched No 762155, 3 Credits

Sociol 342
Aging and Society
An examination of theories and research on aging and society. The course is organized into two sections. The first explores the general relationship of the aging process and the aged to the social, economic, and political systems in a youth-oriented and work-oriented society. The second draws upon cross-national and cross-cultural material.
Prerequisite: Sociol E101.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/621, Mr Blumberg, Sched No 762355, 3 Credits

Sociol 351
Methods of Sociological Research
Design of sociological research and methods of inquiry. Organization and analysis of data development of research projects.
Prerequisites: Sociol E101 and junior standing.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/2/419, Mr Movahedi, Sched No 762555, 3 Credits

Sociol 361
Criminology
A general survey and analysis of adult crime. Attention to historical development of criminological thought, societal reaction to crime, and behavioral systems. Emphasis on theories of criminality and issues in the administration of justice by police and courts.
Prerequisites: Sociol E101 and junior or senior standing.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/417, Mr Larson, Sched No 762755, 3 Credits

Sociol 382
Social Psychology of Sex Roles—Men and Women in Society
An analysis of male and female roles in society with consideration of biological and psychological factors. Attention to socialization processes which reflect society's functional definition of acceptable and deviant sex roles.
Prerequisite: Sociol E101.
Day
June 2–July 2, MTuWTh 11:45am–1:45pm, HC M/2/417, Mr Jacobs, Sched No 762955, 3 Credits

Sociol 470
Research Studies in Alcoholism Treatment, Prevention, and Education
An intensive examination of theories and research on the etiology of alcohol addiction, with special emphasis on their implications for treatment, prevention, and education programs; sociologic factors influencing diagnosis and treatment outcomes; legal coercion treatment programs; behavioral, family therapy, and community reinforcement approaches; audio-visual media in alcohol education. Special attention to Alcoholics Anonymous and its related groups. Involves field trips to community agencies.
Prerequisite: Sociol 364.
Evening
July 14–August 21, MW 6:00–9:00pm, DC 517, Mr Blumberg, Sched No 763159, 3 Credits

Interested? Take a look: Anthropology C270, "Indians of North America," p. 5

Spanish

Span D101
Elementary Spanish I
For students with no creditable training in Spanish. An intensive study of the four language skills based on an audio-lingual approach.
Core Area: Foreign Languages.
Day
Lect: June 2–July 10, MTuWTh 10:00am–12:00noon, HC M/2/214, Ms Buck, Sched No 763759, 4 Credits
Lab: June 2–July 10, By Arrgt, Lab Fee: $4.00, Sched No 763854
Evening
Lect: June 2–July 10, MTuTh 6:00–8:20pm, DC 610, Ms Saiz, Sched No 763804, 4 Credits
Lab: June 2–July 10, By Arrgt, Lab Fee: $4.00, Sched No 763909

Span D102
Elementary Spanish II
A continuation of Spanish D101. An intensive study of the four language skills based on an audio-lingual approach.
Prerequisite: Span D101 or equivalent.
Core Area: Foreign Languages.
Day
Lect: July 14–August 21, MTuWTh 10:00–12:00noon, HC M/2/214, Staff, Sched No 764103, 4 Credits
Lab: July 14–August 21, By Arrgt, Lab Fee: $4.00, Sched No 764208
Evening
Lect: July 14–August 21, MTuTh 6:00–8:20pm, DC 610, Staff, Sched No 764153, 4 Credits
Lab: July 14–August 21, By Arrgt, Lab Fee: $4.00, Sched No 764258

Span D103
Intensive Elementary Spanish
An intensive study of the four language skills for those who wish to do a full year of elementary Spanish in one semester. May be taken for credit by students who have studied two years in high school and wish to start over.
Core Area: Foreign Languages.
Day
June 2–August 5, MTuWTh 8:15–10:45am, HC W/1/050, Ms Osorio/Ms Basker, Sched No 764458, 8 Credits

Span D201
Intermediate Spanish I
An oral and written review and further study of the language skills with readings in Spanish and Spanish-American literature and culture.
Prerequisite: Span D102 or equivalent.
Core Area: Foreign Languages.
Day
June 2–July 10, MTuWTh 8:15–9:45am, HC M/2/624, Ms Buck Sched No 764658, 3 Credits

Span D202
Intermediate Spanish II
A continuation of Spanish D201.
Prerequisite: Span D201 or equivalent.
Core Area: Foreign Languages.
Day
July 14–August 21, MTuWTh 8:15–9:45am, HC M/2/624, Ms Soracco Sched No 764858, 3 Credits

Special Program: Spanish Translation

June 2–August 21
Every summer the Department of Spanish and Portuguese at UMass/Boston offers a special undergraduate program for both Spanish and English native speakers, leading to a Certificate in Translation. The program consists of an advanced two-course sequence, 12 credits in all, taught by specialists in linguistics and translation. Proficiency requirements must be met before a student can register for the program, and departmental approval is required. For information to apply please contact:
Professor Esther Torrego
Department of Spanish and Portuguese
UMass/Boston
929-7670

Span 306
Introduction to the Techniques of Translation
Development of the basic techniques and skills needed for translation. Emphasis on translation into the native language with some practice in the opposite direction. Methods of contrastive linguistics are used to analyze pertinent aspects of language structure, involving syntax, vocabulary and style. Material for this course is taken from published translations of both a literary and non-literary character. Students are given ample opportunity to apply these techniques through a series of translation assignments, which form the basis for class discussion.
Prerequisite: Permission of Department.
Day
June 2–July 10, MTuWTh 10:00am–1:00pm, HC M/1/612, Ms Torrego, Sched No 765052, 6 Credits

Span 307
Advanced Translation
Practice in translating a variety of genres and styles, both literary and non-literary, e.g., passages from cultural material, short stories and essays; government documents; scientific, commercial, and technical prose. Emphasis is on translating into the native language, but considerable practice is given in translating material in the commercial and human service fields from the native to the non-native language. Literary material is taken from various periods to make students aware of historical changes in vocabulary, syntax, tone and style.
Prerequisite: Span 306. Permission of Department.
Day
July 14–August 21, MTuWTh 10:00am–1:00pm, HC M/1/612, Mr Unger, Sched No 765252, 6 Credits

Special Program: Spanish in Cuernavaca, Mexico

June 15–July 12
This year the Spanish and Portuguese Department of the University of Massachusetts at Boston will offer a program focusing on Intermediate Spanish, taught in Cuernavaca. Most participants are expected to take Intermediate Spanish I and Intermediate Spanish II although, with permission of the department, applicants at other levels of achievement in the language may be accepted for the program.

Cuernavaca is a beautiful town in the mountains an hour's drive from Mexico City on the road to Taxco. While in Cuernavaca, students will live with Mexican families in a totally Spanish-speaking environment. The program fee includes three meals a day and opportunities for field trips on weekends.

Groups will be restricted to 4–6 students taught by native-speakers and supervised by a member of the Spanish and Portuguese Department at UMass/Boston. Participants must register for two courses. Successful students will be awarded 3 undergraduate credits for each course. (A non-credit option is available with prior permission of the department).

The Division of Continuing Education is making arrangements to obtain group rate fares for the flight from Boston to Mexico City and return. They will be available on a limited, first come-first served basis.

The total cost of the program—course fees, room, and board—is $785.00 (airfare not included).

Persons seeking permission to register for the program should contact Professor James Ryan, Department of Spanish and Portuguese, 929-7670, UMass/Boston. Deadline for application: May 16, 1986. For further information call:
Division of Continuing Education
UMass/Boston
929-7900

Theatre Arts

ThrArt E111
Traditions of Western Drama
The intellectual content, designs, and techniques of the drama of the Western world, from the classical Greek to the contemporary European and American theatres. Emphasis on the cultural environment of each major period and locale of the drama in relation to the theatre and its public.
Core Area: The Arts.
Evening
June 2–July 10, TuTh 6:00–9:00pm, DC 507, Mr Fox, Sched No 767450, 3 Credits

ThrArt 121
The Styles and Techniques of Comedy
A study of the comic form, emphasizing the differing styles, techniques, motivations, and degrees of effectiveness of various exemplary comic playwrights, particularly in relation to their audiences, actors, and theatre architectures.
Evening
July 14–August 21, TuTh 6:00–9:00pm, HC M/2/616, Mr Fox, Sched No 767511, 3 Credits

ThrArt C130
Understanding Dance
The study of contemporary dance as an art form. The various points of view about dance among the major dance artists of this century including Duncan, Nijinsky, Graham, Tharp and Balanchine, among others. The ways choreographers deal with the materials of dance: choreography as a craft, considering elements of space, time, weight, and design. Some issues common to all the arts. Lectures, slides, films, readings, discussion, writing and class studio practice will focus on ways of looking at dance as well as developing a critical perspective on it.
Day
July 14–August 21, TuTh 11:45am–2:45pm, HC M/2/616, Ms Tolbert, Sched No 767250, 3 Credits

Special Program: Playwriting on Nantucket

July 1–August 22
For the past twenty years, the Theatre Arts Department of UMass/Boston has offered summer session training in theatre and film to professionals and students of theatre, on the island of Nantucket. Participants in the program live in the town of Nantucket in comfortably furnished duplex apartments owned by the University. Classes are held at historic Coffin School in the center of town.

This year the program will consist of the following three-course sequence:
- Script Analysis (ThrArt 481A) Sched No 767650
- Scene Study (ThrArt 481B) Sched No 767850
- Seminar in Selected Topics (ThrArt 481C) Sched No 768054

These three courses carry a total of nine academic credits.

Students will have an opportunity to examine and develop their original scripts and to work on individual problems of scenic composition and performance.

A non-credit option is available by special permission.

To apply for acceptance students should send a brief statement of their theatre experience and their academic history to:
Dr. Louis E. Roberts, Chairman
Theatre Arts Department
UMass/Boston, Harbor Campus
Boston, MA 02125-3393
The deadline for application is May 16, 1986.
For further information call or write:
Division of Continuing Education
UMass/Boston, Harbor Campus
Boston, MA 02125-3393
929-7900
Note: the fee for this 9-credit course sequence is $625. The residential fee is $275.

Women's Studies

WoSt C150
Women, Culture, and Identity
An introductory level course examining the origins of present attitudes about women, the situation of women in patriarchal cultures, and efforts by women to achieve a self-defined female identity. Drawing on materials from myth, religion, philosophy, anthropology, feminist analysis, literature, and autobiography, the course will investigate cultural beliefs about woman's "nature" and role at different times and places, as well as attempts to explain the origins and persistence of woman's subordination, and women's efforts to define a new identity through political and creative activity.
Core Area: Philosophical and Humanistic Studies.
Day
June 2–July 10, MTuWTh 10:00–11:30am, HC W/1/052, Ms Zyballa, Sched No 768454, 3 Credits

WoSt 260
Women's Health Care
The concerns of women in relation to health, including health issues of special concern to women, such as birth control, pregnancy, and childbearing; nutrition; occupational health; health and aging; women as health workers; and the history, activities, and influence of the women's health movement.
Prerequisite: WoSt C100 or permission of instructor.
Evening
July 14–August 21, TuTh 6:00–9:00pm, DC 524, Ms Cordill, Sched No 768654, 3 Credits

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Graduate Courses

American Civilization

AmCiv 697
Special Topics:
Recent American Political History

An intensive two week seminar conducted by UMass/Boston faculty and Kennedy Library staff, designed primarily for teachers and for graduate students in American Civilization.

The focus will be on topics in recent American political history.

Note: the fee for this three-credit course is $50.00.

Prerequisite: Graduate standing and permission of instructor.

July 7–July 18, By Arrgt, Kennedy Library, Staff, Sched No 703856, 3 Credits

Bilingual Studies/ESL

BES 640
Methods and Materials in Bilingual Education

Examination of major contemporary theories of learning in bilingual education. Focus on instructional improvement strategies, objectives and procedures of evaluation, as they relate to the developmental needs of elementary and secondary bilingual students. Prospective teachers will acquire an understanding of the process of selection, adaptation and development of instructional materials.

Evening

June 2–July 2, MTuWTh 5:00–7:00pm, HC M/1/212, Staff, Sched No 707379, 3 Credits

BES 662
ESL Materials Development

Principles of adult education. Major methodological trends in curriculum and syllabus design. Overview of materials. Analysis of student texts.

Evening

July 7–August 5, MTuWTh 5:00–7:00pm, HC M/1/212, Staff, Sched No 707563, 3 Credits

BES 663
The Structure of the English Language

This course covers ways of describing the structure of English, from traditional methods used in many textbooks to alternative methods. Discussion of teaching methodologies and sociolinguistic considerations, and practice in applying these theories and techniques.

Evening

June 2–July 2, MTuWTh 5:00–7:00pm, HC M/2/419, Staff, Sched No 707802, 3 Credits

Business Administration (MBA)

Note: Acceptance into the College of Management's Master of Business Administration Program, or permission of the MBA Program Director, is required for enrollment in any of the program's 600-level courses.

AF 613
Federal Tax Planning

Introduces the concepts of gross income recognition, deductions, tax credits, and the income tax effects of property transactions, with emphasis on managerial decision-making and planning. These concepts are incorporated into discussion of alternative forms of business organization and the tax implications of each.

Prerequisite: AF 610.

Evening

June 2–July 10, MW, 6:00–9:00pm, HC W/2/127, Staff, Sched No 702802, 3 Credits

AF 620
Financial Management

Principles of financial administration, with applications to problems of financial analysis, control, and planning by firms under changing economic conditions.

Prerequisites: AF 601 and AF 610.

Evening

July 14–August 21, TuTh 6:00–9:00pm, HC W/1/061, Staff, Sched No 703006, 3 Credits

MGT 650
Organizational Theory and Behavior

Drawing on classical and contemporary theory and research, this course examines the organization at the macro level (organizational theory) and the micro level (organizational behavior). Relevant topics at the macro level include organizational structure and complexity as well as issues of effectiveness. Relevant topics at the micro level include motivation, power, leadership, communication, conflict, and decision-making.

Evening

June 2–July 10, TuTh 6:00–9:00pm, HC W/1/061, Ms Murrow, Sched No 742109, 3 Credits

MGT 663
Business-Government Relations

Explores the relationship between government and business in the contemporary United States as well as future possible relationships. The course deals with the various kinds of public policies and governmental activities affecting business such as regulation, promotion, and ownership, and with the ways in which business affects government through participation in the policy process.

Prerequisites: AF 601 and MGT 660.

Evening

July 14–August 21, MW 6:00–9:00pm, HC W/2/127, Staff, Sched No 742309, 3 Credits

Counselor Training

Coun 614
Counseling Theory and Practice I

The purpose of this course is to provide grounding in the commonalities of counseling techniques and practice in utilizing various techniques. The course will cover the essentials of interviewing, note taking, and report writing, and the role of diagnosis. Tapes and role playing will be required.

Evening

June 2–July 2, MTuWTh 5:00–7:00pm, HC M/2/209, Ms Cody-Murphy, Sched No 714758, 3 Credits

Coun 615
Counseling Theory and Practice II

This course is an extension of Counseling Theory and Practice I. Major theoretical approaches (dynamic, humanistic, behavioral) are considered. There will also be exploration of some non-traditional approaches. Use of tape recordings, films, written records of interviews, and role playing.

Prerequisite: Coun 614.

Evening

July 7–August 5, MTuWTh 5:00–7:00pm, HC M/2/419, Ms Cody-Murphy, Sched No 714958, 3 Credits

Coun 632
Rehabilitation of the Drug Dependent

This course offers an intensive study of substance addiction, intervention, and treatment, with an emphasis on case studies.

Evening

June 2–July 2, MTuWTh 7:15–9:15pm, HC M/2/419, Mr Sarmanian, Sched No 715152, 3 Credits

Special Program: Critical and Creative Thinking

July 7–July 25

This summer the Graduate Program in Critical and Creative Thinking will offer a special series of courses, conferences, workshops, and seminars at the Lawrence Academy of Groton, MA, for educational practitioners interested in incorporating critical and creative thinking skills into the educational process. Participants will have the opportunity to work closely with UMass/Boston faculty and with leading experts from across the country. Major issues, theories, methods, and developments in the field will be discussed, with special attention given to developing comprehensive and specialized curriculum, materials, and evaluation designs in the area of critical thinking which can be used during the upcoming school year.

3-week/3-credit courses*
July 7–July 25

CCT 601
Critical Thinking: Teaching for Critical Thinking

Phil 601
Foundations of Philosophical Thought: Philosophy in Classroom Instruction

CCT 611
Seminar in Critical Thinking: Master Teacher Seminar

CCT 685
Seminar on Issues in Educational Evaluation: Evaluating Critical Thinking

CCT 697A
Special Topics in Critical and Creative Thinking: Advanced Topics

CCT 697B
Special Topics in Critical and Creative Thinking: Critical Thinking Evaluation and Design

CCT 698
Practicum: Critical Thinking Curriculum Development

CCT 698
Practicum: Philosophy Curriculum Development

*Each of these courses meets either all morning or all afternoon; participants can thus take two courses for a total of six credits.

1-week/1-credit
Advanced Mini Courses

CCT 697D
Testing Critical Thinking

CCT 697E
Philosophical Thinking

CCT 697F
What is Critical Thinking

CCT 697G
Socratic Teaching

CCT 697H
Evaluating Thinking

CCT 697I
Philosophical Thinking and Development

CCT 697J
Infusing Critical Thinking

CCT 697K
Creative Thinking

CCT 697L
Critical Thinking Skills

CCT 697M
Problem Solving

CCT 697N
Critical Thinking Attitudes

CCT 697O
Problem Solving Strategies

Special 3-credit Courses

CCT 611
4-day Planning Seminar for Administrators
July 15–18

2-week Seminar for AFT Teacher Trainers

(With the approval of the CCT Program Director, non-credit options are available for the courses listed above.)

A series of non-credit conferences on a number of topics, conducted by various critical and creative thinking specialists, will also be held one day a week (when classes are not in session).

Residential accommodations will be available at the Lawrence Academy. Room and board is approximately $160.00 a week (per person, based on double-occupancy). Arrangements should be made by contacting the CCT Program office.

For further information regarding program details, application, registration, and residential accommodations please contact:

Nancy Adams or Robert Swartz
Critical and Creative Thinking Program
University of Massachusetts at Boston 02125
(617) 929-7885 or 929-7886

Education (Elementary and Secondary)

Educ 697A
Structured Programming
A course using KARL the Robot to aid in teaching structured programming techniques. Primarily a hands-on computer course, it gives the student a foundation for teaching structured programming using various languages taught in schools.
Day
July 7–August 5, MTuWTh 11:45am–1:45pm, HC W/1/010, Ms Signer, Sched No 719653, 3 Credits

Educ 697B
The Boston Writing Project
An intensive course on the teaching of writing designed for teachers from kindergarten to college.
Students interested in enrolling in this course should contact Dr. Joseph Check at the Institute of Learning and Teaching, 929-8530.
Note: the fee for this three-credit course is $50.00.
Day
June 30–July 24, MTuWTh 9:00am–3:30pm, HC W/1/044, Mr Check/Ms Burden/Mr Golden, Sched No 719853, 3 Credits

Educational Administration

Adm 610
Research Design
This course introduces quantitative and qualitative methods of research in educational administration: basic concepts of statistics, data analysis, observation and inquiry, and interview and questionnaire design.
Evening
July 7–August 5, MTuWTh 4:30–6:30pm, HC M/2/417, Staff, Sched No 700404, 3 Credits

Adm 646
Leadership Development
Concepts drawn from the behavioral sciences are used as a basis for leadership skill development. Participants will engage in a series of leadership strategies in simulated situations which will enable them to better understand, predict, and modify their own behavior and that of others in organizational settings.
Evening
June 2–July 2, MTuWTh 4:30–6:30pm, HC M/2/417, Mr McCarthy, Sched No 700604, 3 Credits

English

Engl 610
The Teaching of Composition
This course will define the role of composition in the English curriculum in both college and secondary schools; develop a philosophy of language as a foundation for a method of composing; study psychological and linguistic aspects of the composing process.
Evening
June 16–August 7, MW 5:00–7:00pm, HC Engl Lnge, Ms Roskelly, Sched No 723957, 4 Credits

Engl 646
Literature and Society
A study of literature with special reference to its social and historical circumstances, and of the theoretical questions raised by such a perspective.
Evening
June 16–August 7, TuTh 5:00–7:00pm, HC Engl Lnge, Ms Goleman, Sched No 724151, 4 Credits

Mathematics and Computer Science

Math 640
Theory of Computation
Study of functions computable by programs; recursive functions and Turing machines; simulation and diagonalization; universality and unsolvable problems; Kleene's hierarchy and the recursion theorem; Gragoczyk's hierarchy and Ackermann's function; abstract complexity and the speedup theorem; formal languages and classes of automata; inherently difficult combinatorial problems.
Prerequisites: Math 301 and Math 330 or the equivalent.
Day
June 2–July 31, MTuTh 10:00–11:30am, HC W/1/029, Staff, Sched No 739154, 3 Credits

Applied Sociology

ApSoc 699
Thesis Research in Applied Sociology
Supervised thesis research open to students who elect the thesis option. The thesis research is conducted under the supervision of a faculty committee consisting of a primary faculty advisor and two additional faculty members, who are responsible for advising the student in preparing and carrying out the thesis project, and for evaluating and judging its acceptability.
Prerequisite: Permission of the Graduate Program Director and Committee.
By Arrgt, Staff, Sched No 763359, 6–9 Credits

Special Education

SpEd 633
Legal & Political Issues in Special Education
The field of special education is governed by laws (Chapter 766 and PL 94-142) and is thus subject to the political process. This course will address the critical legal aspects of special education, with an in-depth review of legislation, regulations and current practice issues. The major focus of the course will be to clarify for special education teachers their obligations under the law, and to develop strategies for implementing the law with full compliance.
Prerequisite: SpEd 641.
Evening
July 7–August 5, MTuWTh 6:00–8:00pm, HC M/2/428, Mr Davis, Sched No 765652, 3 Credits

SpEd 646
The Gifted and Talented Student
This special topics course will provide students with an overview of the gifted and talented student. Topics include definition of "gifted," identification of the gifted and talented, and methods and programs geared to these students. Special areas to be addressed are the gifted minority student, as well as the gifted and talented underachiever.
Prerequisite: SpEd 641.
Evening
June 2–July 2, MTuWTh 4:00–6:00pm, HC M/2/428, Ms Goodale, Sched No 765852, 3 Credits

SpEd 697A
Current Issues in Special Education
This course will explore and analyze current issues in special education, and ways of dealing with them. Key areas include non-biased assessment, bilingual special education, minimal competency testing, and mainstreaming.
Evening
June 2–July 2, MTuWTh 6:00–8:00pm, HC M/2/421, Mr Toto, Sched No 766056, 3 Credits

SpEd 697B
Diagnosis and Remediation of Mathematics Disabilities
This course will focus on mathematics dysfunctions which students frequently demonstrate at the elementary and secondary level. Assessment techniques, both formal and informal, will be linked to remediation strategies.
Evening
July 7–August 5, MTuWTh 6:00–8:00pm, HC M/2/421, Mr Sharma, Sched No 766256, 3 Credits

**Interested?
Take a look:
Geography and
Earth Science D 226,
"Physical Oceanography," p. 9**

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

The Center for Occupational Education

UMass/Boston's Center for Occupational Education provides high quality instruction to those seeking state approval as vocational instructors and/or vocational instructors of students with special needs, as well as courses for regular classroom teachers, special educators, and vocational instructors seeking additional certification as industrial arts teachers. The Center also sponsors courses on special topics for occupational educators, school systems, industry, and labor.

For further information about courses or programs offered through the Center for Occupational Education, please contact:

University of Massachusetts at Boston
Division of Continuing Education
Downtown Center
Boston, MA 02125-3393
(617) 956-1000

Courses Leading to Vocational Approval

These courses are open only to persons holding provisional approval and seeking full approval as vocational instructors from the Division of Occupational Education of the Massachusetts Department of Education.

OccEd 201
Fundamentals of Occupational Education
This course is designed to provide provisionally approved vocational education teachers with a knowledge of the historical and philosophical foundations of vocational education and the content of federal and state laws pertaining to vocational education, and with the skills necessary to conduct occupational analysis, carry on a VICA program, and obtain assistance from local support groups and advisory committees. It is the first of six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Evening
June 2–July 10, MW 6:00–9:00pm, Medford High School, Sched No 746705, 3 Credits
June 2–July 10, TuTh 6:00–9:00pm, West Roxbury High School, Sched No 746755, 3 Credits
June 2–July 10, TuTh 6:00–9:00pm, Hanover—South Shore Regional Technical High School, Sched No 746905, 3 Credits

OccEd 202
Management of the Vocational Education Environment
This course is designed to train provisionally approved vocational educators in the theory and practice of effective classroom/laboratory management in a vocational setting. Instructional organization, shop organization, safety, first aid, and student management will receive special emphasis. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Prerequisite: OccEd 201.
Evening
June 2–July 10, MW 6:00–9:00pm, West Roxbury High School, Sched No 747204, 3 Credits
June 2–July 10, MW 6:00–9:00pm, Hanover—South Shore Regional Technical High School, Sched No 747309, 3 Credits

OccEd 203
Teaching Methods in Vocational Education I
This is the first of a two-course sequence dealing with the methods of teaching vocational education. In the two-course sequence students will develop competencies in four major areas of teaching: 1) contemporary theories and principles of learning; 2) instructional preparation; 3) teaching methods and techniques; 4) evaluating student growth and effectiveness. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Evening
June 2–July 10, MW 6:00–9:00pm, Medford High School, Sched No 747559, 3 Credits
June 2–July 10, TuTh 6:00–9:00pm, West Roxbury High School, Sched No 747604, 3 Credits

OccEd 204
Teaching Methods in Vocational Education II
A continuation of OccEd 203.
Evening
June 2–July 10, MW 6:00–9:00pm, West Roxbury High School, Sched No 748008, 3 Credits
June 2–July 10, MW 6:00–9:00pm, Hanover—South Shore Regional Technical High School, Sched No 748153, 3 Credits

OccEd 205
Curriculum Development in Occupational Education
This course is designed to help the student develop and implement competency-based vocational education materials and procedures, including a program task list and a program advisory committee. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Evening
June 2–July 10, MW 6:00–9:00pm, South Easton, Sched No 748353, 3 Credits
June 2–July 10, TuTh 6:00–9:00pm, West Roxbury High School, Sched No 748458, 3 Credits

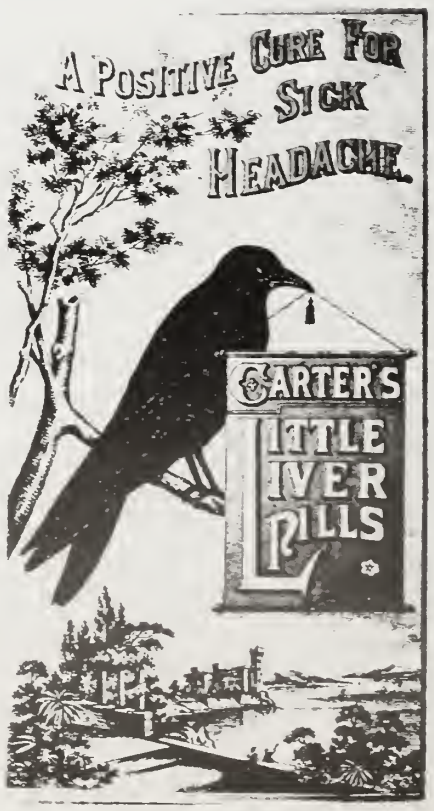
OccEd 206
Supervised Internship
The supervised internship allows students to demonstrate theoretical and methodological knowledge in classroom and laboratory settings. The student will demonstrate his or her teaching skills under the guidance of a master teacher and will be monitored by his or her college instructor. This course is open only to students who have satisfactorily completed OccEd 201–205. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Evening
June 2–July 10, TuTh 6:00–9:00pm, Hanover—South Shore Regional Technical High School, Sched No 748858, 3 Credits

Courses Leading to Approval for Vocational Instructors of Students with Special Needs

These courses are open only to persons who hold full vocational approval or educational certification from the Massachusetts Department of Education and who are seeking approval as vocational instructors of students with special needs.

OccEd 534
Instructional Strategies and Programming for Special Needs Students
Teaching methodologies and strategies in special needs education will be the primary focus of the course , with emphasis on assessment, program and curriculum modification, remediation techniques, and task analysis. Special consideration will be given to integrating students into existing vocational training settings and to the development of alternative community-based training programs.
Day
July 14–August 6, MTuWTh 9:00–11:00am, Hubert Humphrey Occupational Resource Center, Sched No 749052, 3 Credits

Interested?
Take a look:
Marketing 301,
"Principles of Marketing," p. 11



How to Register

For your convenience, registration for continuing education courses is conducted primarily by mail or telephone. To register by mail, use the form on this page. To register by telephone, you must charge fees to a MasterCard or VISA account. The number to call is 929-7933. To avoid paying a $20.00 late fee, you must register at least one week prior to the course starting date.

Students who would rather register in person may do so at the Division of Continuing Education's offices at either the Harbor Campus (Wheatley Hall, 2nd Floor, Room 203) or the Downtown Center (1st Floor, Room 114) during the following times: M–Th, 9:00am–5:00pm; F, 9:00am–4:00pm (Please note that cash payments can be accepted only at the Bursar's Office at the Harbor Campus (Administration Building, 2nd Floor; M-F, 9:00am–3:30pm).

No matter how you register, you will receive written confirmation of your registration about a week before your course or program begins.

If you have further questions, call us at 929-7900.

● Register early!

Early registration helps assure that the course you want will be available when you need it. Why not mail or telephone your course selection now?

Registration Form

Please be sure to provide the numbers requested below. They are needed for coding purposes.

Social Security # ___ — ___ — ___ Date ___

Name ___
Last First Middle Initial

Address ___
No Street City State Zip

Daytime Phone: ( ) ___ **Date of Birth** ___
Mo Day Year

Course Selections

Sched. No.	Start Date	Title	Fee

MasterCard and VISA Only

The University of Massachusetts at Boston, Division of Continuing Education, will accept MasterCard or VISA for payment of fees. If you would like to make use of this service, please provide the information requested.

Account No. ___

Expiration Date ___

Student's Name (Print) ___

Student's Signature ___

Print name of person to whom card was issued if different from above

If a student withdraws or a course is cancelled, the refund will be made only as a credit to the student's MasterCard or VISA account.

Note: when you use this form to register by mail, your cancelled checks will be your receipt. To register using company/agency purchase order, please call (617) 929-7933 between 9:00am and 5:00pm, Monday through Friday.

Payment $ ___

Late Fee (if applicable) $20.00

Total Payment Enclosed $ ___

Full payment must accompany all registrations.

Method of Payment

○ VISA ○ MasterCard

○ Check ○ Other

Make checks payable to University of Massachusetts—Continuing Education

Send checks and forms to:
Division of Continuing Education
Box NC
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

For Office Use

Rec'd: Date.

Batch Bank No.

For Office Use

Non-credit Courses

Non-Credit Programs

● The Auditor's Institute

Established by State Auditor John J. Finnegan and co-sponsored by the Division of Continuing Education and the Massachusetts State Auditor's Office, the Institute is committed to providing persons interested in government and associated private-sector operations with the tools needed to promote the sound and efficient management of public resources.

The initial programs offered by the Institute have been created to help remedy financial and managerial weaknesses, as identified by the State Auditor, in the purchase-of-service system used by the Commonwealth.

During the summer 1986 session the Institute will offer a five-day, in-residence management development course designed to meet the specific needs of administrators of government human service agencies, principals and members of vendor organizations, and supervisory level auditors. The course will help participating managers to:

- acquire the skills for administering an accounting function in accordance with generally accepted standards and with the State Comptroller's requirements;
- improve their ability to manage contracts;
- understand auditing concepts and procedures;
- make better use of automated systems as these systems relate to the audit process.

Additionally, the Institute will offer a series of topical seminars addressing identified concerns and weaknesses in government management. Through appropriate training, the seminars will offer participants the means to greater efficiency and effectiveness in government.

The Institute welcomes requests for further information concerning its programs, as well as suggestions for new offerings. Further information about the Auditor's Institute is available from:

Division of Continuing Education
University of Massachusetts at Boston
Downtown Center
Boston, MA 02125-3393
(617) 956-1000

● Clinical Application of Isokinetics Workshop

You'll learn both the basic theory and the practical applications of isokinetics. Lectures by leading therapists and physiologists will cover rehabilitation concepts, specific regimens for upper and lower pathologies, and the role of isokinetics in back injury assessment and rehabilitation.

Day
June 27, F 9:00am–5:00pm, HC, Sched No 77500-61, Fee: $70.00

● Electrotherapeutic Treatment in Physical Therapy and Sports Medicine

The purpose of this workshop is to help the clinician understand the physiological basis and the practical use of the most current electrotherapy techniques in the field of physical therapy and sports medicine. In addition, since ultrasound is often used in combination with electrotherapy, its scientific basis and clinical application will also be discussed. A display of electrotherapy and ultrasound equipment will follow the seminar.

Day
June 26, Th 8:30am–5:15pm, Harbor Campus, Sched No 78000-61, Fee: $70.00

● Emergency Service Training

Basic and Advanced Courses for EMT's

The Emergency Medical Technician (EMT) plays an important role in the emergency medical service system by providing pre-hospital care to victims of sudden illness or injury. UMass/Boston's EMT training course fulfills state requirements for entrance to the state certification examination. Lectures are given by leading specialists in emergency care. In-hospital experience takes place at a trauma center, under the supervision of physicians and nurses. The emphasis throughout the course is on skill development—extensive practice is designed to increase psychomotor skills while reinforcing knowledge gained through assigned readings. Course participants use the latest equipment in our simulated ambulance laboratories and have the benefit of close instructor supervision and videotape analysis of group practice sessions.

Certified EMT's will also find a number of conveniently scheduled advanced courses for the required refresher training and their continuing medical education. All these courses combine lecture, discussion, and extensive practice sessions in simulated emergency situations. EMT's registered for any of these courses can utilize all equipment and practice materials both in and out of class.

Emergency Medical Technician

June 2–August 14, MTuTh 6:00–9:30pm, Sched No 37210-61
Course Fee: $335.00

Emergency Medical Technician Ambulance Refresher Course

June 9–25, MW 6:00–10:00pm, Sched No 37230-61
July 24–August 7, TuTh 6:00–10:00pm, Sched No 37230-62
Course Fee: $50.00

Water Rescue

June 14–15, SaSu 8:00am–4:30pm, Sched No 37320-61
August 9–10, SaSu 8:00am–4:30pm, Sched No 37320-62
Course Fee: $45.00

Basic Cardiac Life Support During Transportation

June 24–26, TuTh 6:00–9:30pm, and June 28, Sa 8:00am–4:30pm, Sched No 37340-61
Course Fee: $45.00

Emergency Vehicle Operation

July 7–23, MW 6:30–9:30pm and July 19–20, SaSu 8:00am–4:30pm, Sched No 37310-61
Course Fee: $165.00

Crisis Management: De-Escalation Techniques

July 7–11 MWF 6:00–10:00pm, Sched No 37120-61
August 18–22, MWF 6:00–10:00pm, Sched No 37120-62
Course Fee: $30.00

EMT Dispatcher

June 12–19, TuTh 6:30–9:30pm and June 21, Sa 8:00am–4:30pm, Sched No 37300-61
August 6–13, MW 6:30–9:30pm and August 16, Sa 8:00am–4:30pm, Sched No 37300-62
Course Fee: $50.00

Defensive Driving

June 3–5, TuTh 6:00–10:00pm, Sched No 37140-61
July 14–16, MW 6:00–10:00pm, Sched No 37140-62
Course Fee: $20.00

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Most EMT courses can also be scheduled at other locations. For more information about this or about any other details of the program, please contact:

Office of Emergency Service Training
University of Massachusetts at Boston
Downtown Center
Boston, MA 02125-3393
(617) 956-1180

Get More Grants in 1986

A practical workshop/seminar for beginning or experienced grant seekers. This seminar/workshop will help you:

- improve your success rate in winning grants from foundations, corporations, and government agencies
- develop your skills in designing successful grant seeking strategies
- gain confidence in your ability to obtain funds
- identify more sources of funding
- use your advocates to approach new sources of funding

June 23–24, MT 9:00am–5:00pm, Sched No 20700-61, Fee: $295.00

Graduate Test Preparation Courses

Developed in conjunction with the Office of Career Services, these review courses provide intensive classroom sessions covering all sections of each exam. Each course provides extensive exam practice including a full-length practice test given under exam conditions. The courses have been scheduled in advance of the dates of tests for which students are preparing.

Review for the Graduate Management Admission Test (GMAT)

Evening
May 20–June 12, TuWTh 6:00–9:00pm, Sched No 10002-52, Fee: $145.00

Review for the Law School Admission Test (LSAT)

Evening
May 6–June 12, TuTh 6:00–9:00pm, Sched No 10001-52, Fee: $145.00

SAT preparation courses are also being organized by UMass/Boston, at local high schools. Call 929-7900 for further information.

Review for the Medical College Admission Test (MCAT)

July 8–August 21, Sched No 10003-61, Fee: $150.00

Multimedia Communications Workshops

The Center for Communications Media offers workshops for working professionals whose responsibilities include public relations, television, and print production. Although they are open to all communications professionals, these workshops are particularly suited to those performing a communications function in a not-for-profit environment. The problem-solving orientation of workshops means that during the sessions participants will develop solutions to on-the-job problems.

A partial list of workshops to be offered includes:

- Television: Entering the Industry
- Video Production: Techniques for Commercial Use
- The Role of the Computer in Media
- Public Sector Media: The Use of Cable and Teleconferencing
- Creating Electronic Music for Slide and Video Presentation
- Print Planning: A Copywriting and Design Lab
- Public Relations Planning in the Public and Private Sector
- The Business of Commercial Illustration

For further information, please call 929-7900.

Nationwide Teleconferences

The Division of Continuing Education, through the Office of Educational Telecommunication, offers video and audio teleconferences as part of the National University Teleconference Network. Nearly sixty universities throughout the United States have formed this independent, first-of-its-kind network to build a telecommunications system. The network removes geographic and financial restraints that have previously limited information-sharing among universities, professionals, and the general public.

The teleconferences are held on UMass/Boston's Harbor Campus. Individual programs vary in length from three to six hours. The transmitted segment of each teleconference presents national and international experts who address the subject of the teleconference and answer questions from participants in a two-way, interactive mode. Boston area experts are present in the meeting room for further discussion of national issues and their regional implications.

To obtain detailed information about individual teleconferences, please contact:

Ms. Kathleen FitzPatrick
Division of Continuing Education
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393
(617) 929-7900

Raise the Money You Need Now

This special seminar will show you how to increase private sector funding in order to insure your organization's survival and growth in an environment of financial constraints. You'll begin developing an expertise in needs determination, in opportunity analysis, and in the selection, development, and management of successful fund-raising programs. You'll leave the seminar with some strategies, with a realistic fund-raising plan, and with a budget.

Day
June 25–26, W 9:00am–5:00pm, Th 9:00am–1:00, Sched No 20720-61, Fee: $275.00

Sports Medicine/Athletic Training Seminar

You'll learn about the assessment, diagnosis, and treatment of common sport and dance injuries. Lectures in anatomy are followed by practical demonstrations of injury assessment and diagnosis. In three afternoon laboratory sessions, you will learn and practice the most common sport tapings and wrappings. Leading sports medicine physicians, trainers, and physical therapists will lecture on surgical techniques, modalities in sports medicine, and the prevention and management of injuries.

Day
June 23–June 25, MTuW 9:00am–5:00pm, Sched No 77400-61, Fee: $215.00

Time Management

This workshop will present self-management techniques designed to improve your personal effectiveness. Learn how to acquire more control over your work. Build better systems for handling meetings, correspondence, the telephone, and interruptions, as well as for avoiding crises. Develop methods for setting and prioritizing achievable goals. Build support teams among co-workers and subordinates. Then use the time you've gained, both for the things you should be doing and for the things you want to do.

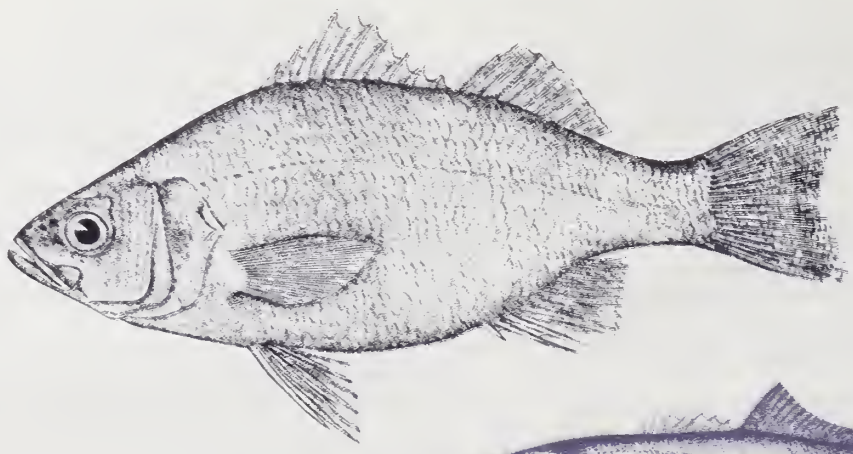
Evening
May 20, Tu 6:30–9:30pm, Sched No 20960-52, Fee: $35.00

Who Has Lived in This House?

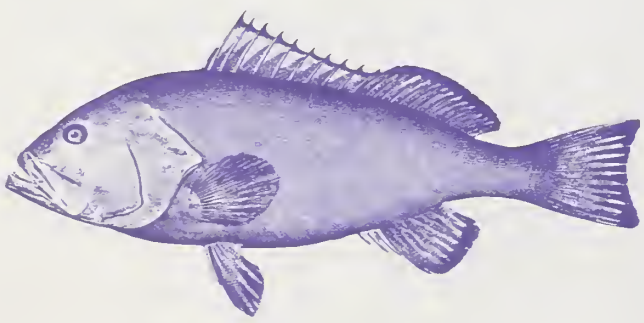
Tracing the age and history of a New England House

This three-session workshop provides information on how to determine the approximate age of a house located in the New England area through an examination of its architectural design features and of the materials used in its construction. The Abial Cudworth House in North Scituate, Massachusetts (which has undergone continuous structural renovation since 1810) will be used as a case study. The workshop then explores in depth how local record sources, identical in many cases to those used in genealogical research, can provide a great deal of information about the character, the social milieu, and the life histories of individuals who have lived in the house; and about major milestones in the history of the house itself. Such an exploration of a house's background need not be limited to those structures which have survived for a century or more. There is much of interest to be found, for example, in accounts of the previous owners and the history of homes built in the suburbs during the 1950's.

Evening
May 6–May 20, Tu 6:00–8:00pm, Sched No 20980-51, Fee: $27.00



**Interested?
Take a look:
"Marine Biology
on Nantucket Island," p. 6**



Summer Activities and Services for Students

All summer session students paying service fees may participate in the following activities.

Academic Advising and Tutorial Services

College of Arts and Sciences
Office of Academic Support and Advising
McCormack Hall, 3rd Fl., Rm. 625, 929-8220
MF, 9:00am–5:00pm; evening hours by arrangement.

College of Management
Student Services and Advising Office
McCormack Hall, 3rd Fl., Rm. 415, 929-8105
M, 8:30am–6:30pm, T-F, 8:30am–5:00pm

Harbor Art Gallery

This student-run gallery exhibits professional and student work. It is located on the first floor of McCormack Hall.

Film Series

Popular contemporary and classic films are featured weekly. Pick up the schedule in the Student Activities Office (Wheatley Hall, 4th Floor, Room 181) or look for the announcement in each week's *Mass Media*.

Lecture Series

Topical and controversial lectures are featured throughout the summer. Pick up the schedule in the Student Activities Office (Wheatley Hall, 4th Floor, Room 181) or watch for announcements in the *Mass Media*.

Athletics

The Catherine Forbes Clark Athletic and Recreation Center houses the following facilities:

Competition Ice Rink
Swimming Pool
Gymnasiums
Gymnastics Area
Combative and Creative Area

The Clark Center is open 10:00am to 7:00pm, Monday through Friday, and 1:00 to 5:00pm on Saturday and Sunday.

There are courts for handball, racquetball and squash on the first floor of McCormack Hall and racquetball courts on the third floor of Wheatley Hall. Interested students may sign up at each location.

An athletic field, eight tennis courts and a softball field, are available for student use. Organized activities are listed in a schedule available at the Athletic Office on the first floor of the Clark Center.

A current valid UMass/Boston ID is required for entrance to all University athletic facilities.

Swimming Program

Swimming instruction will be offered this summer according to the guidelines of the American Red Cross "Learn to Swim" program. Pick up a schedule in the Pool Office at the Clark Center.

Sailing Program

Sailing instruction is offered from June 1st through August 1st, Monday through Friday (weather and tide conditions permitting). Interested students must take a basic swimming test before registering for instruction. Appropriate certification is awarded according to the level of proficiency achieved.

Fifteen Mercury sailboats, five Lasers and eight rowing dories are available at the sailing dock, which is located adjacent to the pumphouse near the Healey Library.

Discount Tickets

Tickets for sporting and cultural events are available at reduced prices through the Student Activities Office (Wheatley Hall, 4th Floor, Room 181).

Mass Media

The student-run newspaper is published each Tuesday and is available at various locations on all campuses.

WUMB

UMass/Boston's radio station operates at 91.9 on the FM dial and features a varied format of music and public affairs programming. WUMB's AM signal is brought by closed circuit to several locations on campus, including all cafeterias.

Concerts

Indoor and outdoor concerts are offered by the Student Activities Office. For a full schedule, visit the office in Wheatley Hall, 4th Floor, Room 181.

Social Events

The Student Activities Office plans celebrations, festivals, and parties. For complete information, visit the office in Wheatley Hall, 4th Floor, Room 181, or watch for announcements in the *Mass Media*.

Admissions Seminars

For those definitely interested in matriculating:

General sessions at the Harbor Campus, in the Admissions Office Conference Room, 1st Floor Administration Building.: Mondays, 5:30pm; Thursdays, 9:30am; Fridays, 2:00pm.

You must call to reserve a place: 929-8000.

For those considering college:

Seminars at the Downtown Center: Mondays, 5:30pm; Thursdays, 9:30am; Fridays, 2:00pm.

You must call to reserve a place: 929-8000.

● Career Planning, Resume Writing, and Interviewing Techniques Workshops

The Office of Career Services is offering the following free workshops designed to equip students with the skills necessary for beginning a successful career. Each workshop is offered once during Summer Session I and once during Summer Session II.

Resume Writing

July 8 1:00–2:30pm *or* July 9, 1:00–2:30pm

Interviewing Techniques

July 8, 1:00–2:30pm *or* July 9, 1:00–2:30pm

For further information, call the Office of Career Services at 929-7125.

● Health Promotion Programs

The Health Promotion Program will offer the following workshops, drop-in information/referral services, and special events during the summer:

Diet and Weight Management
Daily Weigh-In
Smoker's Liberation Group
Smoker's Liberation Drop-In/Self-Help
Alcohol Resource Information

For more information please contact the Health Promotion Program at the Harbor Campus, McCormack Hall, 1st Floor, Room 613, Monday–Friday, 9:00am–4:30pm, 929-7880/7881.

The Returning Students Program will offer a "Support Group for Returning Students" during the summer. If you are over 25, you may reduce stress, find resources and keep your motivation high by joining the group now.

June 4–July 9 on Wednesdays from 2:00 to 3:00pm

For more information please contact the Returning Students Program at the Harbor Campus, McCormack Hall, 2nd Floor, Room 412–414, Monday–Friday, 9:00am–4:30pm, 929-7315/7316.

**Interested?
Take a look:
History 371,
"The Age of the American Revolution," p. 10**

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Fees and Payments: General Information

Course Fees

Undergraduate	$54.00 per credit
Graduate	67.50 per credit

Note: the standard course fee for a 1-credit undergraduate course would be $54.00; and for a 3-credit course, $162.00. In a few cases, however, a course fee may be calculated differently, because of special costs, or a subsidy. In these cases, the course fee is always included as part of the course description.

Service Fees

Mandatory for all students

Registration Fee	$10.00
Educational Service Fee	5.00
Student Health Fee	18.00
Student Activities Fee	7.00
Student Athletics Fee	6.25
Late Registration Fee (when applicable)	20.00
Bad Check Fee (when applicable)	20.00

Independent Study

Only UMass/Boston students may register for Independent Study and must do so through the Scheduling Office, located in the Office of Registration and Records, after satisfying any departmental prerequisite(s). Students pay state course fees as follows:

Resident:	
Undergraduate	$54.00 per credit
Graduate	67.50 per credit
Non-resident:	
Undergraduate	$180.00 per credit
Graduate	188.50 per credit

Payment of Course and Service Fees

Students must pay in full before their registrations will be accepted. No payment will be accepted after the Add/Drop deadline of the session for which payment is intended. Students may use the following methods to make payment:

Check:

Please make out a separate check to cover the course fee (and lab fee, if applicable) for *each* course that is being requested, and a separate check for total Service Fees (Registration, Educational Service, Health, Activities, and Athletics; see Course and Service Fees above). Submission of separate check payments for each course allows the University to return payments immediately for an individual course that is no longer available. Any student who combines payment into one check does so at the risk of having the entire application returned or waiting until after the Add/Drop period for a refund.

Please make checks payable to the University of Massachusetts—Continuing Education.

A payment of course and service fees made with an unacceptable check will result in administrative withdrawal, an additional bad check fee of $20.00, and referral to a collection agency, which may result in liability for the payment of a collection fee.

MasterCard or VISA:

The University of Massachusetts at Boston will accept payment by MasterCard or VISA for all course and service fees. *The minimum acceptable MasterCard or VISA payment is $25.00.* Please fill out the appropriate section of the registration form when registering by mail.

Cash:

Cash payments must be made at the Bursar's Office at the Harbor Campus only. (Administration Building, 2nd Floor; M–F, 9:00am–3:30pm.) *The Bursar's Office will give you a receipt, which you must submit with your registration form.*

Payment by Outside Agencies

If the student's charges are to be paid by an outside agency, a payment authorization from that agency must accompany his or her registration if one is not on file in the Bursar's Office. Students are reminded that they are liable for all course and service fees in the event that the sponsoring agency does not provide payment.

Course Fee Waiver and Remission Policy

The Division of Continuing Education will honor *course fee* waivers and remission of *course fees* for those persons meeting the eligibility requirements described below, providing the courses they wish to take are adequately supported by fees from paying students, and providing space is available in these courses. Credit course fee waivers and remission of credit course fees apply only at the standard rate of $54.00 per undergraduate credit and $67.50 per graduate credit. Thus, in the case of a credit course with extraordinary costs necessitating a higher than standard course fee, course fee waivers and remission will be granted for only the amount of the standard course fee. *Registration fees, service fees, and other mandatory fees, except in the case of senior citizens, must be paid in full.* Anyone wishing to apply for course fee waivers or remissions must do so when registering for courses: *the policy is not retroactive.* See academic calendar for appropriate registration times. Vietnam-era veterans are eligible for *course fee* waivers under the following conditions:

1. They must be matriculated in a program leading to a degree or certificate.
2. They must not have used their *course fee* waiver for more than 130 credits.
3. If they did not enter service while residing in the Commonwealth of Massachusetts, they must file an affidavit under oath attesting to their having resided in the Commonwealth for two consecutive years immediately preceding enrollment.
4. They must have their registration form approved by UMass/Boston's Veterans' Affairs Office.

Senior citizens are eligible for a *waiver of all fees* upon submission of a notarized Senior Citizen Affidavit at the time of registration.

Full-time state employees are eligible for a 50% *course fee* remission upon submission of a properly completed "Certificate of Eligibility" at the time of registration (half-time state employees are eligible for a 25% course fee remission).

Full-time employees of public higher education, their spouses, and their dependent children are eligible for a 50% *course fee* remission upon submission of a properly completed "Certificate of Eligibility" at the time of registration (half-time employees of public higher education, their spouses, and their dependent children are eligible for a 25% course fee remission). The Division of Continuing Education cannot honor vouchers issued to cooperating practitioners by the state-funded programs of the University of Massachusetts at Amherst, Boston, or Worcester.

Lab Fees

Lab fees must be paid for certain courses as indicated in the schedule listings. The amounts of fees appear under schedule numbers for those courses requiring fees. The lab fee for each course must be paid at the time of registration. There will be an additional $10.00 lab fee charge for participants in all courses using the Central Computer Center facilities.

Summer Student I.D. Cards

I.D. cards are required for the use of such facilities as libraries and the Clark Athletic Center. They may be obtained at the Harbor Campus through the I.D. Office (Wheatley Hall, 4th Floor, Room 118) between 10:00am and 1:00pm each day. The charge is $2.00. UMass/Boston students who have currently valid I.D. cards need not obtain summer I.D. cards.

Cancellations

Summer session courses are conducted through the Division of Continuing Education, which is supported by student course fees. No state funding is available to help the Division of Continuing Education pay faculty salaries and meet overhead expenses. The Division must therefore cancel underenrolled courses. Before classes begin each term—generally during the week after the regular registration deadline—the Division projects enrollments according to the numbers of students already registered and decides whether to cancel courses that may be underenrolled. *Students are therefore encouraged to register early.*

Any student who has registered for a course that is cancelled may register for another course or request a refund. The course fee will be refunded in full to any student who has paid for a cancelled course and does not wish to register for another course in its place. If all courses for which the student has registered are cancelled, service fees will also be refunded.

Refunds

A student who withdraws from a course will be granted a refund according to the schedule below. Non-attendance does not constitute withdrawal. Students withdrawing from credit courses must file a valid withdrawal form at the Summer Session Registration Center. Students withdrawing from non-credit courses must file a valid withdrawal form with the Continuing Education Office.

For courses scheduled for ten or more class meetings:

Withdrawal before the first class meeting	100% Refund
Withdrawal before the second class meeting	90% Refund
Withdrawal before the third class meeting	50% Refund
Withdrawal after the third class meeting	No Refund

For courses scheduled for 6–9 class meetings:

Withdrawal before the first class meeting	100% Refund
Withdrawal before the second class meeting	80% Refund
Withdrawal after the second class meeting	No Refund

For courses scheduled for 1–5 class meetings:

Withdrawal before the first class meeting	100% Refund
Withdrawal after the first class meeting	No Refund

Whenever a refund is due, either because the student wishing the refund has withdrawn from a course or because the University has cancelled the course, *the student must initiate the refund procedure* by notifying the Summer Session Registration Center at the Harbor Campus (Healey Library, 2nd Floor Lobby) either in person or by mail. Refunds will not be processed until after the Add/Drop period.

The amounts of all refunds are computed on the basis of withdrawal dates established by the Office of Registration and Records.

If a student has made a payment with MasterCard or VISA, the refund must be returned as a credit to the student's MasterCard or VISA account.

Unless a course has been cancelled by the University, the $10 registration fee is not refundable. Please allow six to eight weeks for the processing of any refund.

$$\frac{dy}{dx} + y^2 = e^{x^2}$$

$$L\frac{d^2i}{dt^2} + R\frac{di}{dt} + \frac{i}{C} = \frac{dE}{dt}$$

**Interested?
Take a look:
Mathematics 310,
"Applied Ordinary
Differential Equations," p. 12**

Academic Information

Adding and Dropping Courses

Any student may add or drop courses before the Add/Drop deadline (see "Academic Calendar"). The student should obtain an Add/Drop form from the Summer Session Registration Center at the Harbor Campus (Healey Library, 2nd Floor Lobby), have the form signed by the instructors of the courses involved, and return the form to the Summer Session Registration Center.

Auditing

The auditing of certain courses may be possible with the permission of the department and the instructor. The auditing fee will be the same as the course fee. Inquiries concerning the auditing of courses should be directed to the Division of Continuing Education Office, 929-7900.

Withdrawing from Courses

Any student withdrawing from a course after the Add/Drop deadline (see "Academic Calendar") will receive a grade of "W" for that course. Withdrawal forms are available at the Summer Session Registration Center at the Harbor Campus (Healey Library, 2nd Floor Lobby). Failure to submit a withdrawal form before 4:00pm on the last day of the withdrawal period will result in a grade of "F."

Transcripts

All students who wish transcripts sent to other schools must complete transcript request forms in the Office of Registration and Records. The cost of an official transcript is $2.00.

Pass/Fail Option for UMass/Boston Students

A total of eight courses may be taken on a Pass/Fail basis by matriculated UMass/Boston students while the student is an undergraduate. When the student earns a Pass (P) grade, credits for the course count as graduation credits; but the grade has no bearing on the student's cumulative average. A Fail (F) grade affects the student's cumulative average as a regular "F" would.

During the summer the following regulations apply:

1. Only *one* course may be taken on a Pass/Fail basis.
2. A course taken Pass/Fail cannot exceed five credits.
3. A summer course taken on a Pass/Fail basis counts toward the maximum allowed number of eight.
4. A student wishing to take a course on a Pass/Fail basis must fill out a Pass/Fail card, available at the Office of Registration and Records. Any student submitting two Pass/Fail cards in one summer will not be allowed to take either course on a Pass/Fail basis.
5. A Pass/Fail card, once submitted, cannot be withdrawn after the Pass/Fail deadline of the session in question (see the calendar).

Regulations

Normal University regulations apply during the summer session, unless otherwise specified. Students are advised to consult the statements of these regulations available at the INFO Center in McCormack Hall or at the Office of Student Information Services (McCormack, 1st Floor, Room 414).

Grades

Letter grades reported by instructors are given numerical values according to the following chart.

A	4.0
A–	3.75
B+	3.25
B	3.0
B–	2.75
C+	2.25
C	2.0
C–	1.75
D+	1.25
D	1.0
D–	.75
F	.00
Inc	Incomplete
Y	Interim grade in a declared year-long course

The grade of Incomplete is reported only if personal circumstances of extreme difficulty, such as serious illness, have kept a student from completing a portion of his or her required classwork or from taking a final examination; or if an instructor requests that an Incomplete be given for scholarly reasons. If a student's record is such that he or she would fail a course regardless of the quality of work yet to be done, an "F" will be reported.

A student can obtain credit for an Incomplete taken in the summer term only by finishing the work of the course by the end of the following summer term. If the work is not completed by this time, the grade will be changed to an "F." The initiative for removal of the Incomplete grade rests with the student.

An Incomplete on a final grade report is not represented in the student's temporary grade point average. When the Incomplete is later converted to a grade, the average is calculated again and the student is notified.

Once a grade is submitted, it cannot be changed except by approval of the Department Chairperson.

Important Offices and Locations

Office of Registration and Records

Harbor Campus
Administration Bldg., 1st Fl., 929-7200
M–Th, 9:00am–7:00pm; F, 9:00am–5:00pm

Office of Student Financial Management

Harbor Campus
Administration Bldg., 1st Fl., 929-7210
M–F, 8:30am–5:00pm

The Student Financial Management Office provides assistance in the processing of grants, scholarships, loans, and work-study awards. It is also responsible for the coordination of all student employment on campus.

Only UMass/Boston students are eligible to apply for financial aid for the summer session. These students should call or visit the Student Financial Management Office in April for further details. All other students should explore aid possibilities with the financial aid offices at their own institutions.

Educational benefits offered through the Veterans' Administration may be used during the summer session. Veterans who are eligible for these benefits must contact the Office of Veterans' Affairs.

Disabled Student Center

McCormack Hall, 1st Fl., Rm. 401, 929-8240
M–F, 9:00am–5:00pm; other hours by arrangement.

The Disabled Student Center provides a full range of counseling services to students as well as equipment to meet the needs of any student who requests its services (e.g., Braille library, low-vision center, and wheelchairs). All disabled students are welcome to enjoy the facilities and services offered at this center.

Child Care Center

Harbor Campus
Science Bldg., 1st Fl., Rm. 012, 929-7290
M–F, 8:00am–5:00pm

Downtown Center
2nd Fl., Rm. 028, 956-1037
M–F, 8:00am–5:00pm

Child care is available to summer students at UMass/Boston. The child care program is operated by trained personnel, and charges run on a subsidized fee scale. Children between the ages of 18 months and 7 years are eligible.

Bookstore

Harbor Campus
Administration Bldg., G2 Level, 929-7250

Library Collections

The University Library holds a book collection numbering nearly 400,000 volumes and currently subscribes to more than 3,500 domestic and foreign journals and newspapers. The main library, the Joseph P. Healey Library, is centrally located on the Harbor Campus plaza, easily accessible from the catwalk that connects all buildings on campus. It has extensive bibliography and reference holdings, a growing collection of government documents, and an art and music library that includes a Special Collections Room and listening carrels for the audio collection. In the Downtown Center there is a small library specifically designed for the students and faculty of CPCS. Its holdings are concentrated in the areas of psychology, sociology, law, and political science. The collections of both libraries are listed in the Public Catalog of the Healey Library, which holds a record of every book, journal, government document, and audio tape held by the University Library. All of these materials are available for use by students and faculty of the summer program. Temporary collections are available during the summer in the Downtown Center.

Cafeterias

Harbor Campus
Administration Bldg., G2 Level,
McCormack Hall, 3rd Floor

Downtown Center
1st Floor

Veterans' Affairs Office

Harbor Campus
Administration Bldg., 1st Fl., Rm. 007, 929-7135
M–F, 8:30am–4:30pm

The Veterans' Affairs Office assists all veterans in obtaining their educational benefits and helps them to resolve related problems.

Parking

Parking is available at the Harbor Campus in two underground garages. Operators of all vehicles, except motorcycles, must pay $2.00 per day to park in a garage (motorcycles: $1.25 per day). Discount tickets authorizing ten days' parking are also available at the parking booths for $15.00 (cars) or $7.50 (motorcycles).

Public Transportation

Free and frequent shuttle bus service is provided between the Harbor Campus and JFK/UMass (formerly Columbia) Station on the MBTA Red Line. Buses following MBTA Route 16B stop at the Harbor Campus. The Downtown Center is within a short distance of the Arlington stop on the Green Line. A free shuttle bus service connects the two campuses.

Health Services

Medical Services

Main Facility (General Information)
(617) 929-7111, Harbor Campus, A/2/040
Summer Session: M–Th, 9:00am–6:30pm; F, 9:00am–4:30pm

Park Square Clinic
(617) 956-1017, Downtown Center, 417
Summer Session: M–Th, 1:00–7:00pm

Mental Health/Counseling Services

Main Facility
(617) 929-7170, Harbor Campus, A/2/015
Summer Session: MTh, 9:00am–6:30pm; TuWF, 9:00am–4:30pm

Park Square Clinic
(617) 956-1024, Downtown Center, 417
Summer Session: M–Th, 1:00–7:00pm

Peer Support Program and Returning Students Program

(617) 929-7316/7315, Harbor Campus, M/2/412-414
Summer Session: M–F, 9:00am–4:30pm

Health Promotion Program

(617) 929-7880/7881, Harbor Campus, M/1/613
Summer Session: M–F, 9:00am–4:30pm

The University Health Service offers outpatient medical care, mental health/counseling and health education programs for all enrolled students. Students may be seen by appointment or on a walk-in basis. *Medical Services* include unlimited medical visits, gynecological care, health counseling, routine laboratory work, minor surgery, dermatology, dental screening/consultation, and referrals, when necessary. *Mental Health/Counseling Services* provide personal growth counseling, crisis intervention, workshops and walk-in emergency, consultation, information and referral services. The *Peer Support Program* offers students assistance in dealing with the common problems of student life whether academic, personal or social. A drop-in center is provided which makes available everything from information, conversation, referral services and networking to support groups for returning students and assertiveness training. The *Returning Students Program* assists older students who have been out of school and are returning to the academic world. The *Health Promotion Program* supports the clinical efforts of the Health Service and promotes responsible health consciousness throughout the University community by sponsoring workshops, drop-in information/referral services and special events.

Co-op Internship Program

UMass/Boston students with thirty degree credits can earn three credits for paid or unpaid internship or Co-op work experiences during the summer. Those interested in further information should call or visit the Co-op/Internship Office for an appointment, Wheatley Hall, 2nd Floor, Room 203, Telephone 929-8495.

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Useful Information

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Interested?
Take a look:
Humanities E250,
"American Popular Song,"
p. 10, p. 13